

## AR TARGET SHEET

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DOCUMENT # NA

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SECTION 2 OF 4

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OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2220 ADS SUF: 1 SUBACTIVITY: AI

SUBACTIVITY TITLE: W-026 WRAP 1 CONSTRUCTION MANAGEMENT

INSTALLATION: HANFORD

CATEGORY: WM

DEFENSE/NON-DEFENSE:

VERSION DATE: 5/12/93

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 91L-EWW-026 TPC: 91200 TEC: 53600

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
LI 39EW31302	1640	1774		0	0	0	0	0	0
TOTAL	1640	1774	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
LI 39EW31302	1640	1970	0		0	0	0	0	0
TOTAL	1640	1970	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

This Project supports the project technical and support work necessary to design, construct, and operate Waste Receiving and Processing (WRAP) Module 1. WRAP Module 1 is a planned facility that will provide certification and treatment for over 38,000 drums of suspect Transuranic (TRU) solid waste stored at Hanford and provide mixed waste verification sampling capability for waste in storage as well as newly generated wastes. The TRU fraction of these wastes may be transported to and emplaced in the Waste Isolation Pilot Plant (WIPP) in New Mexico. The non-TRU fraction will be segregated for onsite disposal or further processing. WRAP Module 1 will be a new facility located in the 200 West Area of Hanford.

This Project will provide for definitive design, procurement, National Environmental Policy Act (NEPA) documentation, construction testing, and start-up of WRAP 1. This will also include such support activities as preparation of safety documentation, feasibility evaluations, engineering trade-off studies, systems and software development, project management, ALARA studies, waste acceptance criteria, and monitoring of interfaces with other Hanford projects and facilities. This activity will include demonstrations required to support the technical basis, process development, equipment testing and inspection, material selection, operator training, operability testing, preparation of operating procedures, and readiness review.

Crucial technology development needs include non-destructive examination systems, waste handling systems, and identification of waste sampling and characterization requirements and methodologies.

This Subactivity provides for construction management services by the construction contractor.

## RELATED ACTIVITIES NARRATIVE:

This activity is related to waste retrieval (Phase 1 Retrieval, ADS 2200-02) and storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost efficiencies.

The schedule dates and Budget Authority profile in this ADS reflects approval of Tri-Party Agreement change request M-18-90-2 to complete construction in March 1996, and initiate operations in March 1997, with an identified TEC of \$53.6M.

A key operations assumption is that no sample analysis capability is currently provided within the scope of WRAP Module 1. Laboratory support will be available and/or automated field screening capabilities will be



added in the future.

A key planning assumption is that WRAP Module 1 construction can be accomplished under interim status. If finalization of the Part B Permit is required, WRAP Module 1 construction schedules will be impacted and new Tri-Party Agreement milestones for completion of construction and start of operations will need to be negotiated with the Environmental Protection Agency (EPA) and the State of Washington Department of Ecology (Ecology).

#### ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6. The Project is in support of the Tri-Party Milestones M-18-00 (Major TPA), 'Initiate WRAP 1 Operations', and M-18-01 (Interim TPA), 'Complete WRAP 1 Construction.'

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

Significant accomplishments have been completed on WRAP Module 1. Completion of activities to support construction includes: approval of Key Decision 1, 2 and 3; Conceptual Design; Definitive Design; issuance of Construction Management Plan by CM; Engineering and Inspection (Title III) contract established and associated reporting complete. In FY94, Request for Quotes (RFQ) process was completed and resulted in identification of an apparent low bidder for the major construction contract. The construction contract will be awarded and construction and procurement activities initiated.

Equipment development activities completed are the design media review to NDE/NDA, building systems, glovebox, and waste handling systems, and associated equipment development and testing activities.

Project documentation completed includes: Supplemental Design Requirements Document (SDRD) revision; Waste Sampling Plan (Chapter 3 of Part B Permit); ICE review; Project Plan; Project Management Plan; initial revision of startup plan; PSAR; initiation of the FSAR; Air Permits; and the NEPA C-2 Analysis. The three Air Permits that are required to construct WRAP 1 have been submitted and returned approved.

Startup activities include preparation and issuance of a Readiness Review plan and continue to staff-up for startup. The FSAR will be initiated. Operations activities will be to establish an organization for the operations and readiness review process.

Procurement activities will include review of contractor vendor submittals for major procurements, procurement of the TRUPACT equipment and preparation of the procurement specification for the Government Furnished Equipment (GFE) Boxed Waste Assay System, and purchase of facility spares.



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G Request for Quotes (RFQ) process was completed with the selection of the major construction contractor. The Construction Manager office is in place and prepared to initiate construction activities.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G The Construction Manager will continue to support the project towards a completion of the project and initiation of operations in March 1997.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G The Construction Manager will continue to support the project towards a completion of the project and initiation of operations in March 1997.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G The Construction Manager will continue to support the project towards a completion of the project and initiation of operations in March 1997.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

The Department of Energy has written commitments to the Public, the State of Washington, and the Federal Environmental Protection Agency to construct WRAP Module 1 and enable permanent disposal of TRU wastes currently stored at Hanford. These written commitments are in the form of the Record Of Decision (ROD) for the Hanford Defense Waste Environmental Impact Statement (HDW-EIS), which was published in the Federal Register in 1988, and the Tri-Party Agreement (M-18-00) between the U.S. Department of Energy, U.S. Environmental Protection Agency, and the Washington State Department of Ecology, which was signed in 1989. The ROD recognizes the storage of TRU wastes at Hanford is temporary and that WRAP Module 1 is a necessary facility to safely manage the permanent disposal of these wastes. Retrievably stored suspect TRU waste includes some hazardous constituents. The Tri-Party Agreement (M-18-00) recognizes characterizing these wastes in WRAP is an essential part of safely handling the waste in accordance with WAC 173-303.

Characterizing TRU waste is necessary to satisfy the WIPP-Waste Acceptance Criteria (WAC) and the State of New Mexico Hazardous Waste Regulations which includes both radiological and hazardous waste designation.

Hazardous waste characterization is required by various State and Federal regulations to identify dangerous and hazardous waste. Treatment, Storage, Disposal (TSD) facilities are thus mandated to confirm knowledge of waste before storage, treatment, or disposal is allowed. Detailed chemical/physical and biological analysis are required.

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
40CFR 60 - (Standards of Performance for New Stationary Sources) 40CFR 61 - (Radiation Emission Standards)  
40CFR 61 - (National Emission Standards for Hazardous Air Pollutants)  
40CFR 260 - (Hazardous Waste Management System)  
40CFR 261 - (Identification and Listing of Hazardous Waste)  
40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)  
40CFR 264 - (Resource Conservation and Recovery Act (RCRA))  
40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

## WASHINGTON STATE REGULATIONS

WAC 173-303 - (Dangerous Waste Regulations)  
WAC 173-400 - (General Regulations for Air Pollution Sources)  
WAC 296-155 - (Washington Industrial Safety and Health Act)

## DEPARTMENT OF ENERGY ORDERS

DOE Order 4700.1A - (Project Management System)  
DOE Order 5400.1 - (General Environmental Protection Program)  
DOE Order 5400.5 - (Radiation Protection of the Public and the Environment)

DOE Order 5480.1B - (Environmental, Safety, and Health Program for DOE Operations)  
DOE Order 5480.22 - (Technical Safety Requirements)  
DOE Order 5480.23 - (Nuclear Safety Analysis Reports)  
DOE Order 5480.24 - (Nuclear Criticality Safety)  
DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)  
DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)  
DOE Order 5820.2A - (Radioactive Waste Management)  
DOE Order 6430.1A - (General Design Criteria)

NESHAP REGULATIONS  
CAA REGULATIONS  
RCRA REGULATIONS  
TSCA REGULATIONS

#### REGULATORY KEY ISSUES:

The only clearly identified key issue is the question of how to sample the waste to effect acceptable characterization. Final resolution will occur through Resource Conservation and Recovery Act (RCRA) Part B Permit negotiations with the State of Washington Department of Ecology.

COMP/PROG BENEFITS AT PLANNING LEVEL:  
No impacts at the planning level.

#### CONCERNS AT PLANNING LEVEL:

The storage of TRU waste drums began at Hanford in 1970, with the objective they would be retrieved within 20 years. By the planned start-up of WRAP Module 1 in 1997, some of these drums will have been in underground storage for 27 years. This extended storage has already contributed to the deterioration of these drums, complicating retrieval, handling, and on-site transportation of these drums. Deferral or complete non-support for WRAP Module 1 will increase deterioration of containers resulting in loss of containment and potential contamination of soils adjacent to containers and increased worker radiation exposure potential during retrieval, transportation, and handling in WRAP Module 1. Deferral of WRAP Module 1 will delay compliance with Tri-Party Agreement milestone and implementation of the HDW-EIS ROD.

The operations activities, based on the target and decrement case funding shortfalls in FY 1996 (\$5,275K and \$7,867K respectively), will be phased such that the low level waste line will be operational to meet the M-18 TPA milestone, but the TRU line will not be operational. The planning case provides funding for the staffing increases to startup the TRU line. In the target case the TRU line will become operational in FY 1998. In the subsequent years, funding is provided to fully operate the facility.

**REQUIRED TECHNICAL DEVELOPMENT:**

No technology development is required. Equipment development, prototyping, design, procurement, mock-up, and testing is necessary.

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2220 ADS SUF: 1 SUBACTIVITY: AJ

SUBACTIVITY TITLE: W-026 WRAP 1 PROCUREMENT

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 91L-EWW-026 TPC: 91200 TEC: 53600

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
LI 39EW31302	1000	423			0	0	0	0	0
TOTAL	1000	423	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
LI 39EW31302	1000	470	0		0	0	0	0	0
TOTAL	1000	470	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

This Project supports the project technical and support work necessary to design, construct, and operate Waste Receiving and Processing (WRAP) Module 1. WRAP Module 1 is a planned facility that will provide certification and treatment for over 38,000 drums of suspect Transuranic (TRU) solid waste stored at Hanford and provide mixed waste verification sampling capability for waste in storage as well as newly generated wastes. The TRU fraction of these wastes may be transported to and emplaced in the Waste Isolation Pilot Plant (WIPP) in New Mexico. The non-TRU fraction will be segregated for onsite disposal or further processing. WRAP Module 1 will be a new facility located in the 200 West Area of Hanford.

This Project will provide for definitive design, procurement, National Environmental Policy Act (NEPA) documentation, construction testing, and start-up of WRAP 1. This will also include such support activities as preparation of safety documentation, feasibility evaluations, engineering trade-off studies, systems and software development, project management, ALARA studies, waste acceptance criteria, and monitoring of interfaces with other Hanford projects and facilities. This activity will include demonstrations required to support the technical basis, process development, equipment testing and inspection, material selection, operator training, operability testing, preparation of operating procedures, and readiness review.

Crucial technology development needs include non-destructive examination systems, waste handling systems, and identification of waste sampling and characterization requirements and methodologies.

This Subactivity provides for procurement of the TRUPACT Loading equipment and the GFE Boxed Waste Assay System.

## RELATED ACTIVITIES NARRATIVE:

This activity is related to waste retrieval (Phase 1 Retrieval, ADS 2200-02) and storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost efficiencies.

The schedule dates and Budget Authority profile in this ADS reflects approval of Tri-Party Agreement change request M-18-90-2 to complete construction in March 1996, and initiate operations in March 1997, with an identified TEC of \$53.6M.

A key operations assumption is that no sample analysis capability is currently provided within the scope of WRAP Module 1. Laboratory support will be available and/or automated field screening capabilities will be



added in the future.

A key planning assumption is that WRAP Module 1 construction can be accomplished under interim status. If finalization of the Part B Permit is required, WRAP Module 1 construction schedules will be impacted and new Tri-Party Agreement milestones for completion of construction and start of operations will need to be negotiated with the Environmental Protection Agency (EPA) and the State of Washington Department of Ecology (Ecology).

#### ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6. The Project is in support of the Tri-Party Milestones M-18-00 (Major TPA), 'Initiate WRAP 1 Operations', and M-18-01 (Interim TPA), 'Complete WRAP 1 Construction.'

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

Significant accomplishments have been completed on WRAP Module 1. Completion of activities to support construction includes: approval of Key Decision 1, 2 and 3; Conceptual Design; Definitive Design; issuance of Construction Management Plan by CM; Engineering and Inspection (Title III) contract established and associated reporting complete. In FY94, Request for Quotes (RFQ) process was completed and resulted in identification of an apparent low bidder for the major construction contract. The construction contract will be awarded and construction and procurement activities initiated.

Equipment development activities completed are the design media review to NDE/NDA, building systems, glovebox, and waste handling systems, and associated equipment development and testing activities.

Project documentation completed includes: Supplemental Design Requirements Document (SDRD) revision; Waste Sampling Plan (Chapter 3 of Part B Permit); ICE review; Project Plan; Project Management Plan; initial revision of startup plan; PSAR; initiation of the FSAR; Air Permits; and the NEPA C-2 Analysis. The three Air Permits that are required to construct WRAP 1 have been submitted and returned approved.

Startup activities include preparation and issuance of a Readiness Review plan and continue to staff-up for startup. The FSAR will be initiated. Operations activities will be to establish an organization for the operations and readiness review process.

Procurement activities will include review of contractor vendor submittals for major procurements, procurement of the TRUPACT equipment and preparation of the procurement specification for the Government Furnished Equipment (GFE) Boxed Waste Assay System, and purchase of facility spares.



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G Initiation of the procurement of the TRUPACT equipment. Preparation of the procurement specification for the GFE Boxed Waste Assay System.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G Fabrication will be initiated for the GFE Boxed Waste Assay System.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G Equipment will be tested and installed into the facility.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G No activities in the outyears.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

The Department of Energy has written commitments to the Public, the State of Washington, and the Federal Environmental Protection Agency to construct WRAP Module 1 and enable permanent disposal of TRU wastes currently stored at Hanford. These written commitments are in the form of the Record Of Decision (ROD) for the Hanford Defense Waste Environmental Impact Statement (HDW-EIS), which was published in the Federal Register in 1988, and the Tri-Party Agreement (M-18-00) between the U.S. Department of Energy, U.S. Environmental Protection Agency, and the Washington State Department of Ecology, which was signed in 1989. The ROD recognizes the storage of TRU wastes at Hanford is temporary and that WRAP Module 1 is a necessary facility to safely manage the permanent disposal of these wastes. Retrievably stored suspect TRU waste includes some hazardous constituents. The Tri-Party Agreement (M-18-00) recognizes characterizing these wastes in WRAP is an essential part of safely handling the waste in accordance with WAC 173-303.

Characterizing TRU waste is necessary to satisfy the WIPP-Waste Acceptance Criteria (WAC) and the State of New Mexico Hazardous Waste Regulations which includes both radiological and hazardous waste designation.

Hazardous waste characterization is required by various State and Federal regulations to identify dangerous and hazardous waste. Treatment, Storage, Disposal (TSD) facilities are thus mandated to confirm knowledge of waste before storage, treatment, or disposal is allowed. Detailed chemical/physical and biological analysis are required.

Specific regulations in addition to others required are:

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40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

## WASHINGTON STATE REGULATIONS

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WAC 173-400 - (General Regulations for Air Pollution Sources)  
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## DEPARTMENT OF ENERGY ORDERS

DOE Order 4700.1A - (Project Management System)  
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DOE Order 6430.1A - (General Design Criteria)

NESHAP REGULATIONS  
CAA REGULATIONS  
RCRA REGULATIONS  
TSCA REGULATIONS

#### REGULATORY KEY ISSUES:

The only clearly identified key issue is the question of how to sample the waste to effect acceptable characterization. Final resolution will occur through Resource Conservation and Recovery Act (RCRA) Part B Permit negotiations with the State of Washington Department of Ecology.

COMP/PROG BENEFITS AT PLANNING LEVEL:  
No impacts at the planning level.

#### CONCERNS AT PLANNING LEVEL:

The storage of TRU waste drums began at Hanford in 1970, with the objective they would be retrieved within 20 years. By the planned start-up of WRAP Module 1 in 1997, some of these drums will have been in underground storage for 27 years. This extended storage has already contributed to the deterioration of these drums, complicating retrieval, handling, and on-site transportation of these drums. Deferral or complete non-support for WRAP Module 1 will increase deterioration of containers resulting in loss of containment and potential contamination of soils adjacent to containers and increased worker radiation exposure potential during retrieval, transportation, and handling in WRAP Module 1. Deferral of WRAP Module 1 will delay compliance with Tri-Party Agreement milestone and implementation of the HDW-EIS ROD.

The operations activities, based on the target and decrement case funding shortfalls in FY 1996 (\$5,275K and \$7,867K respectively), will be phased such that the low level waste line will be operational to meet the M-18 TPA milestone, but the TRU line will not be operational. The planning case provides funding for the staffing increases to startup the TRU line. In the target case the TRU line will become operational in FY 1998. In the subsequent years, funding is provided to fully operate the facility.

**REQUIRED TECHNICAL DEVELOPMENT:**

No technology development is required. Equipment development, prototyping, design, procurement, mock-up, and testing is necessary.

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2220 ADS SUF: 1 SUBACTIVITY: AK

SUBACTIVITY TITLE: W-026 WRAP 1 PROJECT MANAGEMENT

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 91L-EWW-026 TPC: 91200 TEC: 53600

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
LI 39EW31302	365	482		0	0	0	0	0	0
TOTAL	365	482	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
LI 39EW31302	365	535	0		0	0	0	0	0
TOTAL	365	535	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## SCOPE INFORMATION

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### TECHNICAL SCOPE NARRATIVE:

This Project supports the project technical and support work necessary to design, construct, and operate Waste Receiving and Processing (WRAP) Module 1. WRAP Module 1 is a planned facility that will provide certification and treatment for over 38,000 drums of suspect Transuranic (TRU) solid waste stored at Hanford and provide mixed waste verification sampling capability for waste in storage as well as newly generated wastes. The TRU fraction of these wastes may be transported to and emplaced in the Waste Isolation Pilot Plant (WIPP) in New Mexico. The non-TRU fraction will be segregated for onsite disposal or further processing. WRAP Module 1 will be a new facility located in the 200 West Area of Hanford.

This Project will provide for definitive design, procurement, National Environmental Policy Act (NEPA) documentation, construction testing, and start-up of WRAP 1. This will also include such support activities as preparation of safety documentation, feasibility evaluations, engineering trade-off studies, systems and software development, project management, ALARA studies, waste acceptance criteria, and monitoring of interfaces with other Hanford projects and facilities. This activity will include demonstrations required to support the technical basis, process development, equipment testing and inspection, material selection, operator training, operability testing, preparation of operating procedures, and readiness review.

Crucial technology development needs include non-destructive examination systems, waste handling systems, and identification of waste sampling and characterization requirements and methodologies.

This Subactivity provides for project management support by the operating contractor to facilitate project interface with the Architect/Engineer, Construction Management and DOE. Project management also provides for Resident Engineer support, Project Engineer support, and Engineering Manager support.

### RELATED ACTIVITIES NARRATIVE:

This activity is related to waste retrieval (Phase 1 Retrieval, ADS 2200-02) and storage (Phase V Storage, ADS 2200-01).

### KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost efficiencies.

The schedule dates and Budget Authority profile in this ADS reflects approval of Tri-Party Agreement change request M-18-90-2 to complete construction in March 1996, and initiate operations in March 1997, with an identified TEC of \$53.6M.



A key operations assumption is that no sample analysis capability is currently provided within the scope of WRAP Module 1. Laboratory support will be available and/or automated field screening capabilities will be added in the future.

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#### ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6. The Project is in support of the Tri-Party Milestones M-18-00 (Major TPA), 'Initiate WRAP 1 Operations', and M-18-01 (Interim TPA), 'Complete WRAP 1 Construction.'

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

Significant accomplishments have been completed on WRAP Module 1. Completion of activities to support construction includes: approval of Key Decision 1, 2 and 3; Conceptual Design; Definitive Design; issuance of Construction Management Plan by CM; Engineering and Inspection (Title III) contract established and associated reporting complete. In FY94, Request for Quotes (RFQ) process was completed and resulted in identification of an apparent low bidder for the major construction contract. The construction contract will be awarded and construction and procurement activities initiated.

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Startup activities include preparation and issuance of a Readiness Review plan and continue to staff-up for startup. The FSAR will be initiated. Operations activities will be to establish an organization for the operations and readiness review process.

Procurement activities will include review of contractor vendor submittals

for major procurements, procurement of the TRUPACT equipment and preparation of the procurement specification for the Government Furnished Equipment (GFE) Boxed Waste Assay System, and purchase of facility spares.

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SCHEDULE INFORMATION

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## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G Provide project management support. Completion of the Project Management Plan.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G Provide project management support.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G Provide project management support.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G Provide project management support.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

The Department of Energy has written commitments to the Public, the State of Washington, and the Federal Environmental Protection Agency to construct WRAP Module 1 and enable permanent disposal of TRU wastes currently stored at Hanford. These written commitments are in the form of the Record Of Decision (ROD) for the Hanford Defense Waste Environmental Impact Statement (HDW-EIS), which was published in the Federal Register in 1988, and the Tri-Party Agreement (M-18-00) between the U.S. Department of Energy, U.S. Environmental Protection Agency, and the Washington State Department of Ecology, which was signed in 1989. The ROD recognizes the storage of TRU wastes at Hanford is temporary and that WRAP Module 1 is a necessary facility to safely manage the permanent disposal of these wastes. Retrievably stored suspect TRU waste includes some hazardous constituents. The Tri-Party Agreement (M-18-00) recognizes characterizing these wastes in WRAP is an essential part of safely handling the waste in accordance with WAC 173-303.

Characterizing TRU waste is necessary to satisfy the WIPP-Waste Acceptance Criteria (WAC) and the State of New Mexico Hazardous Waste Regulations which includes both radiological and hazardous waste designation.

Hazardous waste characterization is required by various State and Federal regulations to identify dangerous and hazardous waste. Treatment, Storage, Disposal (TSD) facilities are thus mandated to confirm knowledge of waste before storage, treatment, or disposal is allowed. Detailed chemical/physical and biological analysis are required.

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
40CFR 60 - (Standards of Performance for New Stationary Sources) 40CFR 61 - (Radiation Emission Standards)  
40CFR 61 - (National Emission Standards for Hazardous Air Pollutants)  
40CFR 260 - (Hazardous Waste Management System)  
40CFR 261 - (Identification and Listing of Hazardous Waste)  
40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)  
40CFR 264 - (Resource Conservation and Recovery Act (RCRA))  
40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

## WASHINGTON STATE REGULATIONS

WAC 173-303 - (Dangerous Waste Regulations)  
WAC 173-400 - (General Regulations for Air Pollution Sources)  
WAC 296-155 - (Washington Industrial Safety and Health Act)

## DEPARTMENT OF ENERGY ORDERS

DOE Order 4700.1A - (Project Management System)  
DOE Order 5400.1 - (General Environmental Protection Program)  
DOE Order 5400.5 - (Radiation Protection of the Public and the Environment)

DOE Order 5480.1B - (Environmental, Safety, and Health Program for DOE Operations)  
DOE Order 5480.22 - (Technical Safety Requirements)  
DOE Order 5480.23 - (Nuclear Safety Analysis Reports)  
DOE Order 5480.24 - (Nuclear Criticality Safety)  
DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)  
DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)  
DOE Order 5820.2A - (Radioactive Waste Management)  
DOE Order 6430.1A - (General Design Criteria)

NESHAP REGULATIONS  
CAA REGULATIONS  
RCRA REGULATIONS  
TSCA REGULATIONS

#### REGULATORY KEY ISSUES:

The only clearly identified key issue is the question of how to sample the waste to effect acceptable characterization. Final resolution will occur through Resource Conservation and Recovery Act (RCRA) Part B Permit negotiations with the State of Washington Department of Ecology.

#### COMP/PROG BENEFITS AT PLANNING LEVEL:

No impacts at the planning level.

#### CONCERNS AT PLANNING LEVEL:

The storage of TRU waste drums began at Hanford in 1970, with the objective they would be retrieved within 20 years. By the planned start-up of WRAP Module 1 in 1997, some of these drums will have been in underground storage for 27 years. This extended storage has already contributed to the deterioration of these drums, complicating retrieval, handling, and on-site transportation of these drums. Deferral or complete non-support for WRAP Module 1 will increase deterioration of containers resulting in loss of containment and potential contamination of soils adjacent to containers and increased worker radiation exposure potential during retrieval, transportation, and handling in WRAP Module 1. Deferral of WRAP Module 1 will delay compliance with Tri-Party Agreement milestone and implementation of the HDW-EIS ROD.

The operations activities, based on the target and decrement case funding shortfalls in FY 1996 (\$5,275K and \$7,867K respectively), will be phased such that the low level waste line will be operational to meet the M-18 TPA milestone, but the TRU line will not be operational. The planning case provides funding for the staffing increases to startup the TRU line. In the target case the TRU line will become operational in FY 1998. In the subsequent years, funding is provided to fully operate the facility.

## REQUIRED TECHNICAL DEVELOPMENT:

No technology development is required. Equipment development, prototyping, design, procurement, mock-up, and testing is necessary.

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2230 ADS SUF: 1 SUBACTIVITY: AA

SUBACTIVITY TITLE: W-100 WRAP 2A PROJECT INTEGRATION

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 94-D-411 TPC: 139900 TEC: 81900

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	583	147	0		0	366	2496	552	1876
TOTAL	583	147	0	0	0	366	2496	552	1876
DIRECT FTE	6	2	0	0	0	3	15	5	14

## PLANNING CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	583	1021	1200		1200	1196	1346	1035	0
TOTAL	583	1021	1200	0	1200	1196	1346	1035	0
DIRECT FTE	6	9	10	0	10	10	11	8	0

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The mission of the WRAP 2A Facility is to receive, process, package, and certify for permanent burial at the Hanford Site disposal facilities those contact handled (CH) radioactive mixed low-level solid wastes (MLLW) that: (1) are currently in retrievable storage at the Hanford Central Waste Complex awaiting a treatment capability to permit permanent disposal compliant with the Land Disposal Restrictions; (2) are forecasted to be generated over the next 30 years by clean-up work at the Site; and (3) waste to be shipped to the Hanford Site from other U.S. Department of Energy Sites. Completion of this facility fulfills Tri-Party Agreement milestone M-19-00.

WRAP Module 2A is the Subproject that provides treatment capability as part of the Solid Waste Operations Complex (SWOC) MSA for retrieval, storage and treatment. WRAP Module 2A will have the capability to non-thermally treat 29,000 cubic feet of incoming waste annually on a single shift operation basis including waste pre-treatment and conditioning, size reduction, cement grout stabilization, polymer encapsulation, product sampling, and special waste treatment. WRAP 2A will have future expansion capability to levels specified in 40CFR Part 268.

This Subactivity will provide project management and control for WRAP 2A. The tasks include: cost and schedule control, project management plan, document control and records management, project engineering support to include direction/support to the Architect/Engineer. Continue to interface and coordinate with Solid Waste Programs on the Major Systems Acquisition (MSA) strategy, review Activity Data Sheets, and support Five-Year Planning. Prepare validation review packages, Energy System Acquisition Reviews (ESAR), and obtain Key Decision approvals.

## RELATED ACTIVITIES NARRATIVE:

Related activities include waste retrieval (Phase 1 Retrieval, ads 2200-02) and waste storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Sufficient funding must be made available on a timely basis. The preliminary cost estimate showed a project TEC of \$81.9M, based on identified major cost drivers. The planning funding profile in FY 1996 causes some delays in construction and procurement that will be carried over to FY 1997. The delays will not impact the construction complete date but may impact the TEC slightly.

The waste immobilization demonstration program will identify an acceptable waste form.



The first draft of the WRAP Part B Permit was submitted to the State in October 1991. This permit will be modified to include specific details on Module 2A. If finalization of the permit is required prior to construction, WRAP construction schedules will be impacted by approximately one year.

#### ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6.  
Construction of mixed waste treatment capacity is required to process the large volume of stored waste in the Central Waste Complex.

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

The conceptual design for WRAP Module 2 was initiated in 1990, but was terminated in 1990 prior to completion due to funding constraints. Because of technical uncertainties associated with waste disposal at the Waste Isolation Pilot Plant, the original scope of WRAP Module 2 has been sub-modularized into WRAP 2A, MLLW Treatment, WRAP 2B, Remote-handled and Large Containers.

In FY 1992, it was determined that WRAP 2A would be a FY 1994 Line Item. Activities that restarted were project integration, completion of conceptual design, initiation of the waste immobilization demonstration program, and initiation of the advanced conceptual design. Key Decision 0 was obtained. Completed preparation of the preliminary safety evaluation and hazards analysis, prepared the NEPA C-2 analysis, and initiated the preparation of the Equipment Development Program Plan (EDPP).

In FY 1993, activities continued with project integration, startup support, initiation of the engineering development program and issuance of the EDPP, and safety and quality assurance support. A successful ICE review was conducted, the Project Plan was prepared and submitted to DOE-HQ, revised C.2 Analysis was submitted for approval, various Waste Immobilization Demonstration Program activities completed to confirm the baseline process selection, and ACDR studies were completed 60% and 90%.

In FY 1994, project activities will continue with project integration, startup support with the initiation of the Startup Plan, continue the waste immobilization demonstration program, complete the advanced conceptual design report, continue engineering development (equipment development), prepare the PSAR and support preparation, submittal and approval of the NEPA documentation, air permit and RCRA Part B Permit application. Technical criteria definition and assessment will be completed to support the start of Preliminary Design (Title I). Key Decision 1 will be awarded. The Architect/Engineer will start Title I Design. Project management and construction management support will be provided. Discussions were

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initiated with the Washington State Department of Ecology and U.S. Environmental Protection Agency on privatization of the WRAP 2A functions. Parallel efforts on the project and privatization will continue.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
2230-01-0010	START WRAP 2A PRELIMINARY (TITLE I) DESIGN	1/01/94	1/01/94

## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G In FY 1994, operating expense funding will be used to continue project management, obtain Key Decision 1, and support development work. Planning and procurement for key process and other development work will be completed to support the start of mockup and testing. Technical criteria definition and assessment will be completed to support Project and Capital Equipment (PACE) funded Definitive Design. Preliminary Design (Title I) will commence in 1994. Work will continue in support permitting activities and preparation of safety documentation. Other activities include: conduct validation presentation, complete budget planning, and review/revise change control procedure.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
2230-01-0015	APPROVE NEPA DOCUMENTATION	2/28/95	2/28/95

## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G Continue to provide project integration support. Completion of Preliminary Design, preparation of Key Decision 2 presentation for request of approval to commence Detailed Design (Title II).

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
2230-01-0025	COMPLETE WRAP 2A DETAILED (TITLE II) DESIGN	3/31/96	9/30/96

## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G Continue to provide project integration support. Completion of Detailed Design, preparation of Key Decision 3 presentation for request of DOE-HQ approval to commence construction.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
2230-01-0030	START WRAP 2A CONSTRUCTION	3/30/96	9/30/97
2230-01-0020	ISSUE WRAP 2A PSAR REVISION 0	3/31/96	9/30/97
2230-01-0035	COMPLETE WRAP 2A CONSTRUCTION (INTERIM TRI-PARTY AGREEMENT)	9/30/98	3/31/00
2230-01-0040	ISSUE WRAP 2A FSAR REVISION 0	9/30/98	3/31/00

## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G Continue to provide project integration services in support of the

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construction completion date of September 1998, and initiation of operations in September 1999.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Supports Tri-Party Agreement milestones for the WRAP 2 (M-19-00 and M-25-00). WRAP 2 start-up delays will cause Tri-Party Agreement milestones to be missed.

Facilities will treat mixed waste to meet the standards specific in RCRA, mixed waste is considered LDR - disposal cannot be conducted until waste is treated to levels specified in 40CFR Part 268-50.

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
40CFR 60 - (Standards of Performance for New Stationary Sources) 40CFR 61 - (Radiation Emission Standards)  
40CFR 61 - (National Emission Standards for Hazardous Air Pollutants)  
40CFR 260 - (Hazardous Waste Management System)  
40CFR 261 - (Identification and Listing of Hazardous Waste)  
40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)  
40CFR 264 - (Resource Conservation and Recovery Act (RCRA))  
40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

## WASHINGTON STATE REGULATIONS

WAC 173-303 - (Dangerous Waste Regulations)  
WAC 173-400 - (General Regulations for Air Pollution Sources)  
WAC 296-155 - (Washington Industrial Safety and Health Act)

## DEPARTMENT OF ENERGY ORDERS

DOE Order 4700.1A - (Project Management System)  
DOE Order 5400.1 - (General Environmental Protection Program)  
DOE Order 5400.5 - (Radiation Protection of the Public and the Environment)  
DOE Order 5480.1B - (Environmental, Safety, and Health Program for DOE Operations)  
DOE Order 5480.22 - (Technical Safety Requirements)  
DOE Order 5480.23 - (Nuclear Safety Analysis Reports)  
DOE Order 5480.24 - (Nuclear Criticality Safety)  
DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)  
DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)  
DOE Order 5820.2A - (Radioactive Waste Management)  
DOE Order 6430.1A - (General Design Criteria)

## NESHAP REGULATIONS

## CAA REGULATIONS

## RCRA REGULATIONS

## TSCA REGULATIONS

**REGULATORY KEY ISSUES:**

The Tri-Party Agreement request for sub-modularization of WRAP 2 will be approved.

**COMP/PROG BENEFITS AT PLANNING LEVEL:**

The WRAP Module 2A will provide the processing necessary to prepare and certify Hanford retrievably stored and newly generated solid mixed low level wastes (MLLW) for final disposal. The Program benefits of the project are: Compliance with the Hanford Defense Waste Environmental Impact Statement Record of Decision; process and certify MLLW for disposal per RCRA and WAC requirements; and meet the Tri-Party Agreement Major Milestone M-19-00 and Interim Milestone M-19-01.

**CONCERNS AT PLANNING LEVEL:**

Mixed waste will continue to be generated at Hanford, and WRAP is the only facility that can efficiently provide the treatment necessary to enable final disposal of these wastes. Deferral or complete non-support for WRAP Module 2A will require the construction of more MW storage facilities, and potentially increase the difficulty and cost for treating and disposing of these wastes. Additionally, to defer the start of WRAP 2A, would create a RCRA violation with the potential to shut-down operations at Hanford. Deferral of WRAP Module 2A will also unnecessarily delay compliance with Tri-Party Agreement milestones and implementation of the HDW-EIS ROD.

The target funding constraints in FY 1995 will impact the project support activities such that the waste immobilization demonstration program, PSAR, permitting and equipment development activities will be constrained in support of the capital funded Title I Design activities. Efforts to privatize the WRAP 2A functions will continue. In FY 1996, efforts to privatize mixed waste treatment are fully supported. If privatization is unsuccessful, resumption of the project is funded in FY 1997 at \$40,000,000, however the project will incur a 20 month delay. The project funding is therefore reduced in the target case assuming successful privatization in meeting the requirements of the M-19-00 TPA milestone. A phased project support, construction, procurement and project management approach will have to be implemented in order to meet the continued funding constraints through project completion. Recovery of the project and design team may impact the estimated schedule and total project costs.

In the decrement case, where no funding is provided, the project schedule is delayed 18 months. All efforts to privatize this activity are delayed an equivalent duration. The M-19-00 TPA milestone will be missed.

**REQUIRED TECHNICAL DEVELOPMENT:**

Research and development necessary to complete construction: Waste immobilization demonstration, equipment development, prototype equipment designs, procurement, mock-up, and testing.



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E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2230 ADS SUF: 1 SUBACTIVITY: AB

SUBACTIVITY TITLE: W-100 WRAP 2A SYSTEMS ENGINEERING

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 94-D-411 TPC: 139900 TEC: 81900

DESCRIPTION: RICHLAND SOLID/LIQ WASTE & DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	1019	307	0		0	358	2316	236	3444
TOTAL	1019	307	0	0	0	358	2316	236	3444
DIRECT FTE	8	3	0	0	0	3	14	2	20

## PLANNING CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	1019	2032	2473		2473	1175	1337	249	0
TOTAL	1019	2032	2473	0	2473	1175	1337	249	0
DIRECT FTE	8	18	20	0	20	9	8	2	0

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The mission of the WRAP 2A Facility is to receive, process, package, and certify for permanent burial at the Hanford Site disposal facilities those contact handled (CH) radioactive mixed low-level solid wastes (MLLW) that: (1) are currently in retrievable storage at the Hanford Central Waste Complex awaiting a treatment capability to permit permanent disposal compliant with the Land Disposal Restrictions; (2) are forecasted to be generated over the next 30 years by clean-up work at the Site; and (3) waste to be shipped to the Hanford Site from other U.S. Department of Energy Sites. Completion of this facility fulfills Tri-Party Agreement milestone M-19-00.

WRAP Module 2A is the Subproject that provides treatment capability as part of the Solid Waste Operations Complex (SWOC) MSA for retrieval, storage and treatment. WRAP Module 2A will have the capability to non-thermally treat 29,000 cubic feet of incoming waste annually on a single shift operation basis including waste pre-treatment and conditioning, size reduction, cement grout stabilization, polymer encapsulation, product sampling, and special waste treatment. WRAP 2A will have future expansion capability to levels specified in 40CFR Part 268.

This Subactivity will provide technical directions and review for WRAP Module 2A on the following: waste characterization, facility interfaces/characteristics, waste immobilization demonstration sampling techniques and laboratory analysis methods. Prepare and maintain the waste sampling plan and Supplemental Design Requirements Document (SDRD). Continue to prepare waste forms for testing and qualification and box breakdown study. Provide technical interface with Solid Waste Projects. Support senior design review board. Provide direction and coordination for preparation of required permits, NEPA, and safety documentation.

## RELATED ACTIVITIES NARRATIVE:

Related activities include waste retrieval (Phase 1 Retrieval, ads 2200-02) and waste storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Sufficient funding must be made available on a timely basis. The preliminary cost estimate showed a project TEC of \$81.9M, based on identified major cost drivers. The planning funding profile in FY 1996 causes some delays in construction and procurement that will be carried over to FY 1997. The delays will not impact the construction complete date but may impact the TEC slightly.

The waste immobilization demonstration program will identify an acceptable

waste form.

The first draft of the WRAP Part B Permit was submitted to the State in October 1991. This permit will be modified to include specific details on Module 2A. If finalization of the permit is required prior to construction, WRAP construction schedules will be impacted by approximately one year.

#### ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6.  
Construction of mixed waste treatment capacity is required to process the large volume of stored waste in the Central Waste Complex.

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

The conceptual design for WRAP Module 2 was initiated in 1990, but was terminated in 1990 prior to completion due to funding constraints. Because of technical uncertainties associated with waste disposal at the Waste Isolation Pilot Plant, the original scope of WRAP Module 2 has been sub-modularized into WRAP 2A, MLLW Treatment, WRAP 2B, Remote-handled and Large Containers.

In FY 1992, it was determined that WRAP 2A would be a FY 1994 Line Item. Activities that restarted were project integration, completion of conceptual design, initiation of the waste immobilization demonstration program, and initiation of the advanced conceptual design. Key Decision 0 was obtained. Completed preparation of the preliminary safety evaluation and hazards analysis, prepared the NEPA C-2 analysis, and initiated the preparation of the Equipment Development Program Plan (EDPP).

In FY 1993, activities continued with project integration, startup support, initiation of the engineering development program and issuance of the EDPP, and safety and quality assurance support. A successful ICE review was conducted, the Project Plan was prepared and submitted to DOE-HQ, revised C.2 Analysis was submitted for approval, various Waste Immobilization Demonstration Program activities completed to confirm the baseline process selection, and ACDR studies were completed 60% and 90%.

In FY 1994, project activities will continue with project integration, startup support with the initiation of the Startup Plan, continue the waste immobilization demonstration program, complete the advanced conceptual design report, continue engineering development (equipment development), prepare the PSAR and support preparation, submittal and approval of the NEPA documentation, air permit and RCRA Part B Permit application. Technical criteria definition and assessment will be completed to support the start of Preliminary Design (Title I). Key Decision 1 will be awarded. The Architect/Engineer will start Title I Design. Project management and

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construction management support will be provided. Discussions were initiated with the Washington State Department of Ecology and U.S. Environmental Protection Agency on privatization of the WRAP 2A functions. Parallel efforts on the project and privatization will continue.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G Activities in FY94 include: approval of EDT for Treatment Disposal; approval of EDT for Final Waste Certification Study; approve EDT for SDRD/FDC Technical Basis; complete Preliminary Hazards Analysis; complete draft Quality Assurance Program Plan (QAPP); and prepare source term document.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G Complete waste immobilization demonstration program. Continue system engineering activities in support of the project completion.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G Initiate process equipment mockup testing. Continue system engineering activities in support of the project completion.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G Complete process equipment mockup testing. Continue system engineering activities in support of the project completion.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Supports Tri-Party Agreement milestones for the WRAP 2 (M-19-00 and M-25-00). WRAP 2 start-up delays will cause Tri-Party Agreement milestones to be missed.

Facilities will treat mixed waste to meet the standards specific in RCRA, mixed waste is considered LDR - disposal cannot be conducted until waste is treated to levels specified in 40CFR Part 268-50.

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
40CFR 60 - (Standards of Performance for New Stationary Sources) 40CFR 61 - (Radiation Emission Standards)  
40CFR 61 - (National Emission Standards for Hazardous Air Pollutants)  
40CFR 260 - (Hazardous Waste Management System)  
40CFR 261 - (Identification and Listing of Hazardous Waste)  
40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)  
40CFR 264 - (Resource Conservation and Recovery Act (RCRA))  
40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

## WASHINGTON STATE REGULATIONS

WAC 173-303 - (Dangerous Waste Regulations)  
WAC 173-400 - (General Regulations for Air Pollution Sources)  
WAC 296-155 - (Washington Industrial Safety and Health Act)

## DEPARTMENT OF ENERGY ORDERS

DOE Order 4700.1A - (Project Management System)  
DOE Order 5400.1 - (General Environmental Protection Program)  
DOE Order 5400.5 - (Radiation Protection of the Public and the Environment)  
DOE Order 5480.1B - (Environmental, Safety, and Health Program for DOE Operations)  
DOE Order 5480.22 - (Technical Safety Requirements)  
DOE Order 5480.23 - (Nuclear Safety Analysis Reports)  
DOE Order 5480.24 - (Nuclear Criticality Safety)  
DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)  
DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)  
DOE Order 5820.2A - (Radioactive Waste Management)  
DOE Order 6430.1A - (General Design Criteria)

## NESHAP REGULATIONS

## CAA REGULATIONS

## RCRA REGULATIONS

## TSCA REGULATIONS

**REGULATORY KEY ISSUES:**

The Tri-Party Agreement request for sub-modularization of WRAP 2 will be approved.

**COMP/PROG BENEFITS AT PLANNING LEVEL:**

The WRAP Module 2A will provide the processing necessary to prepare and certify Hanford retrievably stored and newly generated solid mixed low level wastes (MLLW) for final disposal. The Program benefits of the project are: Compliance with the Hanford Defense Waste Environmental Impact Statement Record of Decision; process and certify MLLW for disposal per RCRA and WAC requirements; and meet the Tri-Party Agreement Major Milestone M-19-00 and Interim Milestone M-19-01.

**CONCERNS AT PLANNING LEVEL:**

Mixed waste will continue to be generated at Hanford, and WRAP is the only facility that can efficiently provide the treatment necessary to enable final disposal of these wastes. Deferral or complete non-support for WRAP Module 2A will require the construction of more MW storage facilities, and potentially increase the difficulty and cost for treating and disposing of these wastes. Additionally, to defer the start of WRAP 2A, would create a RCRA violation with the potential to shut-down operations at Hanford. Deferral of WRAP Module 2A will also unnecessarily delay compliance with Tri-Party Agreement milestones and implementation of the HDW-EIS ROD.

The target funding constraints in FY 1995 will impact the project support activities such that the waste immobilization demonstration program, PSAR, permitting and equipment development activities will be constrained in support of the capital funded Title I Design activities. Efforts to privatize the WRAP 2A functions will continue. In FY 1996, efforts to privatize mixed waste treatment are fully supported. If privatization is unsuccessful, resumption of the project is funded in FY 1997 at \$40,000,000, however the project will incur a 20 month delay. The project funding is therefore reduced in the target case assuming successful privatization in meeting the requirements of the M-19-00 TPA milestone. A phased project support, construction, procurement and project management approach will have to be implemented in order to meet the continued funding constraints through project completion. Recovery of the project and design team may impact the estimated schedule and total project costs.

In the decrement case, where no funding is provided, the project schedule is delayed 18 months. All efforts to privatize this activity are delayed an equivalent duration. The M-19-00 TPA milestone will be missed.

**REQUIRED TECHNICAL DEVELOPMENT:**

Research and development necessary to complete construction: Waste immobilization demonstration, equipment development, prototype equipment designs, procurement, mock-up, and testing.





OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2230 ADS SUF: 1 SUBACTIVITY: AC

SUBACTIVITY TITLE: W-100 WRAP 2A OPERATIONAL PREPAREDNESS AND STARTUP

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 94-D-411 TPC: 139900 TEC: 81900

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	288	48	0		0	609	3938	5342	96
CE 35EW31302	0	0		0	0	0	200	0	500
TOTAL	288	48	0	0	0	609	4138	5342	596
DIRECT FTE	2	0	0	0	0	4	23	33	5

## PLANNING CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	288	395	706		706	1956	3206	5741	0
CE 35EW31302	0	0	500		500	0	200	0	0
TOTAL	288	395	1206	0	1206	1956	3406	5741	0
DIRECT FTE	2	3	4	0	4	6	21	43	0

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

The mission of the WRAP 2A Facility is to receive, process, package, and certify for permanent burial at the Hanford Site disposal facilities those contact handled (CH) radioactive mixed low-level solid wastes (MLLW) that: (1) are currently in retrievable storage at the Hanford Central Waste Complex awaiting a treatment capability to permit permanent disposal compliant with the Land Disposal Restrictions; (2) are forecasted to be generated over the next 30 years by clean-up work at the Site; and (3) waste to be shipped to the Hanford Site from other U.S. Department of Energy Sites. Completion of this facility fulfills Tri-Party Agreement milestone M-19-00.

WRAP Module 2A is the Subproject that provides treatment capability as part of the Solid Waste Operations Complex (SWOC) MSA for retrieval, storage and treatment. WRAP Module 2A will have the capability to non-thermally treat 29,000 cubic feet of incoming waste annually on a single shift operation basis including waste pre-treatment and conditioning, size reduction, cement grout stabilization, polymer encapsulation, product sampling, and special waste treatment. WRAP 2A will have future expansion capability to levels specified in 40CFR Part 268.

This Subactivity will provide operational preparedness and startup costs associated with the total project cost (TPC) for WRAP 2A. Provide management review and engineering support to include review of project documents and responding to information requests. Provide operational expertise to review the adequacy of designs and concepts from a facility operations feasibility perspective. Support program planning and integration efforts. Initiate work to develop a facility startup plan. Integrate WRAP 2A data management with the control and data integration team and with the acquisition of WRAP 2A computer systems. This Subactivity includes the one time costs related to startup, operator training, and commissioning. This Subactivity will also provide support for procurement of facility spares (CENRTC). Facilities spares includes: 2 manipulators (light duty); power manipulator (heavy duty); pugmill; lift table; double lid door.

## RELATED ACTIVITIES NARRATIVE:

Related activities include waste retrieval (Phase 1 Retrieval, ads 2200-02) and waste storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Sufficient funding must be made available on a timely basis. The preliminary cost estimate showed a project TEC of \$81.9M, based on identified major cost drivers. The planning funding profile in FY 1996

causes some delays in construction and procurement that will be carried over to FY 1997. The delays will not impact the construction complete date but may impact the TEC slightly.

The waste immobilization demonstration program will identify an acceptable waste form.

The first draft of the WRAP Part B Permit was submitted to the State in October 1991. This permit will be modified to include specific details on Module 2A. If finalization of the permit is required prior to construction, WRAP construction schedules will be impacted by approximately one year.

#### ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6.  
Construction of mixed waste treatment capacity is required to process the large volume of stored waste in the Central Waste Complex.

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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W-100 WRAP 2A CAPITAL EQUIPMENT

#### TASKS COMPLETED TO DATE:

The conceptual design for WRAP Module 2 was initiated in 1990, but was terminated in 1990 prior to completion due to funding constraints. Because of technical uncertainties associated with waste disposal at the Waste Isolation Pilot Plant, the original scope of WRAP Module 2 has been sub-modularized into WRAP 2A, MLLW Treatment, WRAP 2B, Remote-handled and Large Containers.

In FY 1992, it was determined that WRAP 2A would be a FY 1994 Line Item. Activities that restarted were project integration, completion of conceptual design, initiation of the waste immobilization demonstration program, and initiation of the advanced conceptual design. Key Decision 0 was obtained. Completed preparation of the preliminary safety evaluation and hazards analysis, prepared the NEPA C-2 analysis, and initiated the preparation of the Equipment Development Program Plan (EDPP).

In FY 1993, activities continued with project integration, startup support, initiation of the engineering development program and issuance of the EDPP, and safety and quality assurance support. A successful ICE review was conducted, the Project Plan was prepared and submitted to DOE-HQ, revised C.2 Analysis was submitted for approval, various Waste Immobilization Demonstration Program activities completed to confirm the baseline process selection, and ACDR studies were completed 60% and 90%.

In FY 1994, project activities will continue with project integration, startup support with the initiation of the Startup Plan, continue the waste immobilization demonstration program, complete the advanced conceptual design report, continue engineering development (equipment development),

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prepare the PSAR and support preparation, submittal and approval of the NEPA documentation, air permit and RCRA Part B Permit application. Technical criteria definition and assessment will be completed to support the start of Preliminary Design (Title I). Key Decision 1 will be awarded. The Architect/Engineer will start Title I Design. Project management and construction management support will be provided. Discussions were initiated with the Washington State Department of Ecology and U.S. Environmental Protection Agency on privatization of the WRAP 2A functions. Parallel efforts on the project and privatization will continue.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G In FY 1994, operating expense funding will be used to continue project management, obtain Key Decision 1, and support development work. Planning and procurement for key process and other development work will be completed to support the start of mockup and testing. Technical criteria definition and assessment will be completed to support Project and Capital Equipment (PACE) funded Definitive Design. Definitive design will begin in 1994. Work will continue in support permitting activities and preparation of safety documentation. Other activities include: conduct validation presentation, complete budget planning, and review/revise change control procedure.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G Initiate Facility Startup Plan.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G Initiate readiness review, complete formation of core management team.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G Operability testing, operator training, preparation of operating procedures, and readiness review will begin in 1998 and be completed to allow initiation start-up by September 1999. Procure facility spares (CENRTC).

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Supports Tri-Party Agreement milestones for the WRAP 2 (M-19-00 and M-25-00). WRAP 2 start-up delays will cause Tri-Party Agreement milestones to be missed.

Facilities will treat mixed waste to meet the standards specific in RCRA, mixed waste is considered LDR - disposal cannot be conducted until waste is treated to levels specified in 40CFR Part 268-50.

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)

40CFR 60 - (Standards of Performance for New Stationary Sources) 40CFR 61 - (Radiation Emission Standards)

40CFR 61 - (National Emission Standards for Hazardous Air Pollutants)

40CFR 260 - (Hazardous Waste Management System)

40CFR 261 - (Identification and Listing of Hazardous Waste)

40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)

40CFR 264 - (Resource Conservation and Recovery Act (RCRA))

40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

## WASHINGTON STATE REGULATIONS

WAC 173-303 - (Dangerous Waste Regulations)

WAC 173-400 - (General Regulations for Air Pollution Sources)

WAC 296-155 - (Washington Industrial Safety and Health Act)

## DEPARTMENT OF ENERGY ORDERS

DOE Order 4700.1A - (Project Management System)

DOE Order 5400.1 - (General Environmental Protection Program)

DOE Order 5400.5 - (Radiation Protection of the Public and the Environment)

DOE Order 5480.1B - (Environmental, Safety, and Health Program for DOE Operations)

DOE Order 5480.22 - (Technical Safety Requirements)

DOE Order 5480.23 - (Nuclear Safety Analysis Reports)

DOE Order 5480.24 - (Nuclear Criticality Safety)

DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)

DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)

DOE Order 5820.2A - (Radioactive Waste Management)

DOE Order 6430.1A - (General Design Criteria)

## NESHAP REGULATIONS

## CAA REGULATIONS

## RCRA REGULATIONS

## TSCA REGULATIONS

**REGULATORY KEY ISSUES:**

The Tri-Party Agreement request for sub-modularization of WRAP 2 will be approved.

**COMP/PROG BENEFITS AT PLANNING LEVEL:**

The WRAP Module 2A will provide the processing necessary to prepare and certify Hanford retrievably stored and newly generated solid mixed low level wastes (MLLW) for final disposal. The Program benefits of the project are: Compliance with the Hanford Defense Waste Environmental Impact Statement Record of Decision; process and certify MLLW for disposal per RCRA and WAC requirements; and meet the Tri-Party Agreement Major Milestone M-19-00 and Interim Milestone M-19-01.

**CONCERNS AT PLANNING LEVEL:**

Mixed waste will continue to be generated at Hanford, and WRAP is the only facility that can efficiently provide the treatment necessary to enable final disposal of these wastes. Deferral or complete non-support for WRAP Module 2A will require the construction of more MW storage facilities, and potentially increase the difficulty and cost for treating and disposing of these wastes. Additionally, to defer the start of WRAP 2A, would create a RCRA violation with the potential to shut-down operations at Hanford. Deferral of WRAP Module 2A will also unnecessarily delay compliance with Tri-Party Agreement milestones and implementation of the HDW-EIS ROD.

The target funding constraints in FY 1995 will impact the project support activities such that the waste immobilization demonstration program, PSAR, permitting and equipment development activities will be constrained in support of the capital funded Title I Design activities. Efforts to privatize the WRAP 2A functions will continue. In FY 1996, efforts to privatize mixed waste treatment are fully supported. If privatization is unsuccessful, resumption of the project is funded in FY 1997 at \$40,000,000, however the project will incur a 20 month delay. The project funding is therefore reduced in the target case assuming successful privatization in meeting the requirements of the M-19-00 TPA milestone. A phased project support, construction, procurement and project management approach will have to be implemented in order to meet the continued funding constraints through project completion. Recovery of the project and design team may impact the estimated schedule and total project costs.

In the decrement case, where no funding is provided, the project schedule is delayed 18 months. All efforts to privatize this activity are delayed an equivalent duration. The M-19-00 TPA milestone will be missed.

**REQUIRED TECHNICAL DEVELOPMENT:**

Research and development necessary to complete construction: Waste immobilization demonstration, equipment development, prototype equipment designs, procurement, mock-up, and testing.





OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2230 ADS SUF: 1 SUBACTIVITY: AD

SUBACTIVITY TITLE: W-100 WRAP 2A CDR/ACDR

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 94-D-411 TPC: 139900 TEC: 81900

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3130020	685	0	0			0	0	0	0
TOTAL	685	0	0		0	0	0	0	0
DIRECT FTE	0	0	0		0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3130020	685	0	0			0	0	0	0
TOTAL	685	0	0		0	0	0	0	0
DIRECT FTE	0	0	0		0	0	0	0	0

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The mission of the WRAP 2A Facility is to receive, process, package, and certify for permanent burial at the Hanford Site disposal facilities those contact handled (CH) radioactive mixed low-level solid wastes (MLLW) that: (1) are currently in retrievable storage at the Hanford Central Waste Complex awaiting a treatment capability to permit permanent disposal compliant with the Land Disposal Restrictions; (2) are forecasted to be generated over the next 30 years by clean-up work at the Site; and (3) waste to be shipped to the Hanford Site from other U.S. Department of Energy Sites. Completion of this facility fulfills Tri-Party Agreement milestone M-19-00.

WRAP Module 2A is the Subproject that provides treatment capability as part of the Solid Waste Operations Complex (SWOC) MSA for retrieval, storage and treatment. WRAP Module 2A will have the capability to non-thermally treat 29,000 cubic feet of incoming waste annually on a single shift operation basis including waste pre-treatment and conditioning, size reduction, cement grout stabilization, polymer encapsulation, product sampling, and special waste treatment. WRAP 2A will have future expansion capability to levels specified in 40CFR Part 268.

This Subactivity will provide preparation of the Advanced Conceptual Design Report (ACDR) by the offsite Architect/Engineer. Preparation of the Definitive Design contract proposal and workplan as part of the Architect/Engineer contract.

## RELATED ACTIVITIES NARRATIVE:

Related activities include waste retrieval (Phase I Retrieval, ads 2200-02) and waste storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Sufficient funding must be made available on a timely basis. The preliminary cost estimate showed a project TEC of \$81.9M, based on identified major cost drivers. The planning funding profile in FY 1996 causes some delays in construction and procurement that will be carried over to FY 1997. The delays will not impact the construction complete date but may impact the TEC slightly.

The waste immobilization demonstration program will identify an acceptable waste form.

The first draft of the WRAP Part B Permit was submitted to the State in October 1991. This permit will be modified to include specific details on Module 2A. If finalization of the permit is required prior to

construction, WRAP construction schedules will be impacted by approximately one year.

#### ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6.  
Construction of mixed waste treatment capacity is required to process the large volume of stored waste in the Central Waste Complex.

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

The conceptual design for WRAP Module 2 was initiated in 1990, but was terminated in 1990 prior to completion due to funding constraints. Because of technical uncertainties associated with waste disposal at the Waste Isolation Pilot Plant, the original scope of WRAP Module 2 has been sub-modularized into WRAP 2A, MLLW Treatment, WRAP 2B, Remote-handled and Large Containers.

In FY 1992, it was determined that WRAP 2A would be a FY 1994 Line Item. Activities that restarted were project integration, completion of conceptual design, initiation of the waste immobilization demonstration program, and initiation of the advanced conceptual design. Key Decision 0 was obtained. Completed preparation of the preliminary safety evaluation and hazards analysis, prepared the NEPA C-2 analysis, and initiated the preparation of the Equipment Development Program Plan (EDPP).

In FY 1993, activities continued with project integration, startup support, initiation of the engineering development program and issuance of the EDPP, and safety and quality assurance support. A successful ICE review was conducted, the Project Plan was prepared and submitted to DOE-HQ, revised C.2 Analysis was submitted for approval, various Waste Immobilization Demonstration Program activities completed to confirm the baseline process selection, and ACDR studies were completed 60% and 90%.

In FY 1994, project activities will continue with project integration, startup support with the initiation of the Startup Plan, continue the waste immobilization demonstration program, complete the advanced conceptual design report, continue engineering development (equipment development), prepare the PSAR and support preparation, submittal and approval of the NEPA documentation, air permit and RCRA Part B Permit application. Technical criteria definition and assessment will be completed to support the start of Preliminary Design (Title I). Key Decision 1 will be awarded. The Architect/Engineer will start Title I Design. Project management and construction management support will be provided. Discussions were initiated with the Washington State Department of Ecology and U.S. Environmental Protection Agency on privatization of the WRAP 2A functions. Parallel efforts on the project and privatization will continue.



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G Complete ACDR activities and conclude with issuance of the Advanced Conceptual Design Report.

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G No activities planned.

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G No activities planned.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G No activities planned.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Supports Tri-Party Agreement milestones for the WRAP 2 (M-19-00 and M-25-00). WRAP 2 start-up delays will cause Tri-Party Agreement milestones to be missed.

Facilities will treat mixed waste to meet the standards specific in RCRA, mixed waste is considered LDR - disposal cannot be conducted until waste is treated to levels specified in 40CFR Part 268-50.

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
40CFR 60 - (Standards of Performance for New Stationary Sources) 40CFR 61 - (Radiation Emission Standards)  
40CFR 61 - (National Emission Standards for Hazardous Air Pollutants)  
40CFR 260 - (Hazardous Waste Management System)  
40CFR 261 - (Identification and Listing of Hazardous Waste)  
40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)  
40CFR 264 - (Resource Conservation and Recovery Act (RCRA))  
40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

## WASHINGTON STATE REGULATIONS

WAC 173-303 - (Dangerous Waste Regulations)  
WAC 173-400 - (General Regulations for Air Pollution Sources)  
WAC 296-155 - (Washington Industrial Safety and Health Act)

## DEPARTMENT OF ENERGY ORDERS

DOE Order 4700.1A - (Project Management System)  
DOE Order 5400.1 - (General Environmental Protection Program)  
DOE Order 5400.5 - (Radiation Protection of the Public and the Environment)  
DOE Order 5480.1B - (Environmental, Safety, and Health Program for DOE Operations)  
DOE Order 5480.22 - (Technical Safety Requirements)  
DOE Order 5480.23 - (Nuclear Safety Analysis Reports)  
DOE Order 5480.24 - (Nuclear Criticality Safety)  
DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)  
DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)  
DOE Order 5820.2A - (Radioactive Waste Management)  
DOE Order 6430.1A - (General Design Criteria)

## NESHAP REGULATIONS

## CAA REGULATIONS

## RCRA REGULATIONS

## TSCA REGULATIONS

**REGULATORY KEY ISSUES:**

The Tri-Party Agreement request for sub-modularization of WRAP 2 will be approved.

**COMP/PROG BENEFITS AT PLANNING LEVEL:**

The WRAP Module 2A will provide the processing necessary to prepare and certify Hanford retrievably stored and newly generated solid mixed low level wastes (MLLW) for final disposal. The Program benefits of the project are: Compliance with the Hanford Defense Waste Environmental Impact Statement Record of Decision; process and certify MLLW for disposal per RCRA and WAC requirements; and meet the Tri-Party Agreement Major Milestone M-19-00 and Interim Milestone M-19-01.

**CONCERNS AT PLANNING LEVEL:**

Mixed waste will continue to be generated at Hanford, and WRAP is the only facility that can efficiently provide the treatment necessary to enable final disposal of these wastes. Deferral or complete non-support for WRAP Module 2A will require the construction of more MW storage facilities, and potentially increase the difficulty and cost for treating and disposing of these wastes. Additionally, to defer the start of WRAP 2A, would create a RCRA violation with the potential to shut-down operations at Hanford. Deferral of WRAP Module 2A will also unnecessarily delay compliance with Tri-Party Agreement milestones and implementation of the HDW-EIS ROD.

The target funding constraints in FY 1995 will impact the project support activities such that the waste immobilization demonstration program, PSAR, permitting and equipment development activities will be constrained in support of the capital funded Title I Design activities. Efforts to privatize the WRAP 2A functions will continue. In FY 1996, efforts to privatize mixed waste treatment are fully supported. If privatization is unsuccessful, resumption of the project is funded in FY 1997 at \$40,000,000, however the project will incur a 20 month delay. The project funding is therefore reduced in the target case assuming successful privatization in meeting the requirements of the M-19-00 TPA milestone. A phased project support, construction, procurement and project management approach will have to be implemented in order to meet the continued funding constraints through project completion. Recovery of the project and design team may impact the estimated schedule and total project costs.

In the decrement case, where no funding is provided, the project schedule is delayed 18 months. All efforts to privatize this activity are delayed an equivalent duration. The M-19-00 TPA milestone will be missed.

**REQUIRED TECHNICAL DEVELOPMENT:**

Research and development necessary to complete construction: Waste immobilization demonstration, equipment development, prototype equipment designs, procurement, mock-up, and testing.





OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2230 ADS SUF: 1 SUBACTIVITY: AE

SUBACTIVITY TITLE: W-100 WRAP 2A EQUIPMENT DEVELOPMENT AND TESTING

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 94-D-411 TPC: 139900 TEC: 81900

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3130020	578	127	0		0	350	1822	58	1978
TOTAL	578	127	0	0	0	350	1822	58	1978
DIRECT FTE	3	1	0	0	0	3	14	0	10

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3130020	578	1249	1547		1547	1151	970	72	0
TOTAL	578	1249	1547	0	1547	1151	970	72	0
DIRECT FTE	3	9	7	0	7	6	5	1	0

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The mission of the WRAP 2A Facility is to receive, process, package, and certify for permanent burial at the Hanford Site disposal facilities those contact handled (CH) radioactive mixed low-level solid wastes (MLLW) that: (1) are currently in retrievable storage at the Hanford Central Waste Complex awaiting a treatment capability to permit permanent disposal compliant with the Land Disposal Restrictions; (2) are forecasted to be generated over the next 30 years by clean-up work at the Site; and (3) waste to be shipped to the Hanford Site from other U.S. Department of Energy Sites. Completion of this facility fulfills Tri-Party Agreement milestone M-19-00.

WRAP Module 2A is the Subproject that provides treatment capability as part of the Solid Waste Operations Complex (SWOC) MSA for retrieval, storage and treatment. WRAP Module 2A will have the capability to non-thermally treat 29,000 cubic feet of incoming waste annually on a single shift operation basis including waste pre-treatment and conditioning, size reduction, cement grout stabilization, polymer encapsulation, product sampling, and special waste treatment. WRAP 2A will have future expansion capability to levels specified in 40CFR Part 268.

This Subactivity will provide review and support of equipment development and testing as identified in the equipment development plan. Review and support size reduction and grouting equipment development. Provide direction to Architect/Engineer on interface requirements and mechanical equipment development.

## RELATED ACTIVITIES NARRATIVE:

Related activities include waste retrieval (Phase 1 Retrieval, ads 2200-02) and waste storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Sufficient funding must be made available on a timely basis. The preliminary cost estimate showed a project TEC of \$81.9M, based on identified major cost drivers. The planning funding profile in FY 1996 causes some delays in construction and procurement that will be carried over to FY 1997. The delays will not impact the construction complete date but may impact the TEC slightly.

The waste immobilization demonstration program will identify an acceptable waste form.

The first draft of the WRAP Part B Permit was submitted to the State in October 1991. This permit will be modified to include specific details on

Module 2A. If finalization of the permit is required prior to construction, WRAP construction schedules will be impacted by approximately one year.

ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6. Construction of mixed waste treatment capacity is required to process the large volume of stored waste in the Central Waste Complex.

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

The conceptual design for WRAP Module 2 was initiated in 1990, but was terminated in 1990 prior to completion due to funding constraints. Because of technical uncertainties associated with waste disposal at the Waste Isolation Pilot Plant, the original scope of WRAP Module 2 has been sub-modularized into WRAP 2A, MLLW Treatment, WRAP 2B, Remote-handled and Large Containers.

In FY 1992, it was determined that WRAP 2A would be a FY 1994 Line Item. Activities that restarted were project integration, completion of conceptual design, initiation of the waste immobilization demonstration program, and initiation of the advanced conceptual design. Key Decision 0 was obtained. Completed preparation of the preliminary safety evaluation and hazards analysis, prepared the NEPA C-2 analysis, and initiated the preparation of the Equipment Development Program Plan (EDPP).

In FY 1993, activities continued with project integration, startup support, initiation of the engineering development program and issuance of the EDPP, and safety and quality assurance support. A successful ICE review was conducted, the Project Plan was prepared and submitted to DOE-HQ, revised C.2 Analysis was submitted for approval, various Waste Immobilization Demonstration Program activities completed to confirm the baseline process selection, and ACDR studies were completed 60% and 90%.

In FY 1994, project activities will continue with project integration, startup support with the initiation of the Startup Plan, continue the waste immobilization demonstration program, complete the advanced conceptual design report, continue engineering development (equipment development), prepare the PSAR and support preparation, submittal and approval of the NEPA documentation, air permit and RCRA Part B Permit application. Technical criteria definition and assessment will be completed to support the start of Preliminary Design (Title I). Key Decision 1 will be awarded. The Architect/Engineer will start Title I Design. Project management and construction management support will be provided. Discussions were initiated with the Washington State Department of Ecology and U.S. Environmental Protection Agency on privatization of the WRAP 2A functions. Parallel efforts on the project and privatization will continue.



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G Issue Agitation Test Report. Issue Sludge Repack Engineering Study.  
Issue Vibratory Test Report.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G Continue equipment development and testing activities in support of the  
project completion. Perform applications and systems tests.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G Continue equipment development and testing activities in support of the  
project completion. Perform applications and systems tests.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G Continue equipment development and testing activities in support of the  
project completion. Perform applications and systems tests.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Supports Tri-Party Agreement milestones for the WRAP 2 (M-19-00 and M-25-00). WRAP 2 start-up delays will cause Tri-Party Agreement milestones to be missed.

Facilities will treat mixed waste to meet the standards specific in RCRA, mixed waste is considered LDR - disposal cannot be conducted until waste is treated to levels specified in 40CFR Part 268-50.

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
40CFR 60 - (Standards of Performance for New Stationary Sources) 40CFR 61 - (Radiation Emission Standards)  
40CFR 61 - (National Emission Standards for Hazardous Air Pollutants)  
40CFR 260 - (Hazardous Waste Management System)  
40CFR 261 - (Identification and Listing of Hazardous Waste)  
40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)  
40CFR 264 - (Resource Conservation and Recovery Act (RCRA))  
40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

## WASHINGTON STATE REGULATIONS

WAC 173-303 - (Dangerous Waste Regulations)  
WAC 173-400 - (General Regulations for Air Pollution Sources)  
WAC 296-155 - (Washington Industrial Safety and Health Act)

## DEPARTMENT OF ENERGY ORDERS

DOE Order 4700.1A - (Project Management System)  
DOE Order 5400.1 - (General Environmental Protection Program)  
DOE Order 5400.5 - (Radiation Protection of the Public and the Environment)  
DOE Order 5480.1B - (Environmental, Safety, and Health Program for DOE Operations)  
DOE Order 5480.22 - (Technical Safety Requirements)  
DOE Order 5480.23 - (Nuclear Safety Analysis Reports)  
DOE Order 5480.24 - (Nuclear Criticality Safety)  
DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)  
DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)  
DOE Order 5820.2A - (Radioactive Waste Management)  
DOE Order 6430.1A - (General Design Criteria)

## NESHAP REGULATIONS

## CAA REGULATIONS

## RCRA REGULATIONS

## TSCA REGULATIONS

**REGULATORY KEY ISSUES:**

The Tri-Party Agreement request for sub-modularization of WRAP 2 will be approved.

**COMP/PROG BENEFITS AT PLANNING LEVEL:**

The WRAP Module 2A will provide the processing necessary to prepare and certify Hanford retrievably stored and newly generated solid mixed low level wastes (MLLW) for final disposal. The Program benefits of the project are: Compliance with the Hanford Defense Waste Environmental Impact Statement Record of Decision; process and certify MLLW for disposal per RCRA and WAC requirements; and meet the Tri-Party Agreement Major Milestone M-19-00 and Interim Milestone M-19-01.

**CONCERNS AT PLANNING LEVEL:**

Mixed waste will continue to be generated at Hanford, and WRAP is the only facility that can efficiently provide the treatment necessary to enable final disposal of these wastes. Deferral or complete non-support for WRAP Module 2A will require the construction of more MW storage facilities, and potentially increase the difficulty and cost for treating and disposing of these wastes. Additionally, to defer the start of WRAP 2A, would create a RCRA violation with the potential to shut-down operations at Hanford. Deferral of WRAP Module 2A will also unnecessarily delay compliance with Tri-Party Agreement milestones and implementation of the HDW-EIS ROD.

The target funding constraints in FY 1995 will impact the project support activities such that the waste immobilization demonstration program, PSAR, permitting and equipment development activities will be constrained in support of the capital funded Title I Design activities. Efforts to privatize the WRAP 2A functions will continue. In FY 1996, efforts to privatize mixed waste treatment are fully supported. If privatization is unsuccessful, resumption of the project is funded in FY 1997 at \$40,000,000, however the project will incur a 20 month delay. The project funding is therefore reduced in the target case assuming successful privatization in meeting the requirements of the M-19-00 TPA milestone. A phased project support, construction, procurement and project management approach will have to be implemented in order to meet the continued funding constraints through project completion. Recovery of the project and design team may impact the estimated schedule and total project costs.

In the decrement case, where no funding is provided, the project schedule is delayed 18 months. All efforts to privatize this activity are delayed an equivalent duration. The M-19-00 TPA milestone will be missed.

**REQUIRED TECHNICAL DEVELOPMENT:**

Research and development necessary to complete construction: Waste immobilization demonstration, equipment development, prototype equipment designs, procurement, mock-up, and testing.





## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2230 ADS SUF: 1 SUBACTIVITY: AF

SUBACTIVITY TITLE: W-100 WRAP 2A WASTE IMMOBILE DEMO TECHNIQUES

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 94-D-411 TPC: 139900 TEC: 81900

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999*	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	1025	269	0		0	466	1832	0	4323
TOTAL	1025	269	0	0	0	466	1832	0	4323
DIRECT FTE	9	2	0	0	0	4	11	0	17

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	1025	1719	3609		3609	1508	793	0	0
TOTAL	1025	1719	3609	0	3609	1508	793	0	0
DIRECT FTE	9	6	12	0	12	6	4	0	0

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The mission of the WRAP 2A Facility is to receive, process, package, and certify for permanent burial at the Hanford Site disposal facilities those contact handled (CH) radioactive mixed low-level solid wastes (MLLW) that: (1) are currently in retrievable storage at the Hanford Central Waste Complex awaiting a treatment capability to permit permanent disposal compliant with the Land Disposal Restrictions; (2) are forecasted to be generated over the next 30 years by clean-up work at the Site; and (3) waste to be shipped to the Hanford Site from other U.S. Department of Energy Sites. Completion of this facility fulfills Tri-Party Agreement milestone M-19-00.

WRAP Module 2A is the Subproject that provides treatment capability as part of the Solid Waste Operations Complex (SWOC) MSA for retrieval, storage and treatment. WRAP Module 2A will have the capability to non-thermally treat 29,000 cubic feet of incoming waste annually on a single shift operation basis including waste pre-treatment and conditioning, size reduction, cement grout stabilization, polymer encapsulation, product sampling, and special waste treatment. WRAP 2A will have future expansion capability to levels specified in 40CFR Part 268.

This Subactivity will provide and demonstrate the technical basis for the chemical process flowsheet baseline. Provide a demonstrated immobilization process technology. Continue technical interface with other sites and commercial facilities.

## RELATED ACTIVITIES NARRATIVE:

Related activities include waste retrieval (Phase 1 Retrieval, ads 2200-02) and waste storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Sufficient funding must be made available on a timely basis. The preliminary cost estimate showed a project TEC of \$81.9M, based on identified major cost drivers. The planning funding profile in FY 1996 causes some delays in construction and procurement that will be carried over to FY 1997. The delays will not impact the construction complete date but may impact the TEC slightly.

The waste immobilization demonstration program will identify an acceptable waste form.

The first draft of the WRAP Part B Permit was submitted to the State in October 1991. This permit will be modified to include specific details on Module 2A. If finalization of the permit is required prior to

construction, WRAP construction schedules will be impacted by approximately one year.

#### ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6.. Construction of mixed waste treatment capacity is required to process the large volume of stored waste in the Central Waste Complex.

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

The conceptual design for WRAP Module 2 was initiated in 1990, but was terminated in 1990 prior to completion due to funding constraints. Because of technical uncertainties associated with waste disposal at the Waste Isolation Pilot Plant, the original scope of WRAP Module 2 has been sub-modularized into WRAP 2A, MLLW Treatment, WRAP 2B, Remote-handled and Large Containers.

In FY 1992, it was determined that WRAP 2A would be a FY 1994 Line Item. Activities that restarted were project integration, completion of conceptual design, initiation of the waste immobilization demonstration program, and initiation of the advanced conceptual design. Key Decision 0 was obtained. Completed preparation of the preliminary safety evaluation and hazards analysis, prepared the NEPA C-2 analysis, and initiated the preparation of the Equipment Development Program Plan (EDPP).

In FY 1993, activities continued with project integration, startup support, initiation of the engineering development program and issuance of the EDPP, and safety and quality assurance support. A successful ICE review was conducted, the Project Plan was prepared and submitted to DOE-HQ, revised C.2 Analysis was submitted for approval, various Waste Immobilization Demonstration Program activities completed to confirm the baseline process selection, and ACDR studies were completed 60% and 90%.

In FY 1994, project activities will continue with project integration, startup support with the initiation of the Startup Plan, continue the waste immobilization demonstration program, complete the advanced conceptual design report, continue engineering development (equipment development), prepare the PSAR and support preparation, submittal and approval of the NEPA documentation, air permit and RCRA Part B Permit application. Technical criteria definition and assessment will be completed to support the start of Preliminary Design (Title I). Key Decision 1 will be awarded. The Architect/Engineer will start Title I Design. Project management and construction management support will be provided. Discussions were initiated with the Washington State Department of Ecology and U.S. Environmental Protection Agency on privatization of the WRAP 2A functions. Parallel efforts on the project and privatization will continue.



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G Issue Draft Interim Formulation Development Test Report. Issue Draft Product Specification.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G Continue process systems and control testing activities.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G Continue process systems and control testing activities.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G Continue process systems and control testing activities.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Supports Tri-Party Agreement milestones for the WRAP 2 (M-19-00 and M-25-00). WRAP 2 start-up delays will cause Tri-Party Agreement milestones to be missed.

Facilities will treat mixed waste to meet the standards specific in RCRA, mixed waste is considered LDR - disposal cannot be conducted until waste is treated to levels specified in 40CFR Part 268-50.

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
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40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)  
40CFR 264 - (Resource Conservation and Recovery Act (RCRA))  
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DOE Order 6430.1A - (General Design Criteria)

## NESHAP REGULATIONS

## CAA REGULATIONS

## RCRA REGULATIONS

## TSCA REGULATIONS

**REGULATORY KEY ISSUES:**

The Tri-Party Agreement request for sub-modularization of WRAP 2 will be approved.

**COMP/PROG BENEFITS AT PLANNING LEVEL:**

The WRAP Module 2A will provide the processing necessary to prepare and certify Hanford retrievably stored and newly generated solid mixed low level wastes (MLLW) for final disposal. The Program benefits of the project are: Compliance with the Hanford Defense Waste Environmental Impact Statement Record of Decision; process and certify MLLW for disposal per RCRA and WAC requirements; and meet the Tri-Party Agreement Major Milestone M-19-00 and Interim Milestone M-19-01.

**CONCERNS AT PLANNING LEVEL:**

Mixed waste will continue to be generated at Hanford, and WRAP is the only facility that can efficiently provide the treatment necessary to enable final disposal of these wastes. Deferral or complete non-support for WRAP Module 2A will require the construction of more MW storage facilities, and potentially increase the difficulty and cost for treating and disposing of these wastes. Additionally, to defer the start of WRAP 2A, would create a RCRA violation with the potential to shut-down operations at Hanford. Deferral of WRAP Module 2A will also unnecessarily delay compliance with Tri-Party Agreement milestones and implementation of the HDW-EIS ROD.

The target funding constraints in FY 1995 will impact the project support activities such that the waste immobilization demonstration program, PSAR, permitting and equipment development activities will be constrained in support of the capital funded Title I Design activities. Efforts to privatize the WRAP 2A functions will continue. In FY 1996, efforts to privatize mixed waste treatment are fully supported. If privatization is unsuccessful, resumption of the project is funded in FY 1997 at \$40,000,000, however the project will incur a 20 month delay. The project funding is therefore reduced in the target case assuming successful privatization in meeting the requirements of the M-19-00 TPA milestone. A phased project support, construction, procurement and project management approach will have to be implemented in order to meet the continued funding constraints through project completion. Recovery of the project and design team may impact the estimated schedule and total project costs.

In the decrement case, where no funding is provided, the project schedule is delayed 18 months. All efforts to privatize this activity are delayed an equivalent duration. The M-19-00 TPA milestone will be missed.

**REQUIRED TECHNICAL DEVELOPMENT:**

Research and development necessary to complete construction: Waste immobilization demonstration, equipment development, prototype equipment designs, procurement, mock-up, and testing.





OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2230 ADS SUF: 1 SUBACTIVITY: AG

SUBACTIVITY TITLE: W-100 WRAP 2A OPERATIONS

INSTALLATION: HANFORD

CATEGORY: WM

DEFENSE/NON-DEFENSE:

VERSION DATE: 5/12/93

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 94-D-411

TPC: 139900

TEC: 81900

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0	0		0	735	2715	11528	25754
TOTAL	0	0	0	0	0	735	2715	11528	25754
DIRECT FTE	0	0	0	0	0	9	31	101	182

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0	874		874	2335	6154	13857	28545
TOTAL	0	0	874	0	874	2335	6154	13857	28545
DIRECT FTE	0	0	6	0	6	14	32	96	191

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The mission of the WRAP 2A Facility is to receive, process, package, and certify for permanent burial at the Hanford Site disposal facilities those contact handled (CH) radioactive mixed low-level solid wastes (MLLW) that: (1) are currently in retrievable storage at the Hanford Central Waste Complex awaiting a treatment capability to permit permanent disposal compliant with the Land Disposal Restrictions; (2) are forecasted to be generated over the next 30 years by clean-up work at the Site; and (3) waste to be shipped to the Hanford Site from other U.S. Department of Energy Sites. Completion of this facility fulfills Tri-Party Agreement milestone M-19-00.

WRAP Module 2A is the Subproject that provides treatment capability as part of the Solid Waste Operations Complex (SWOC) MSA for retrieval, storage and treatment. WRAP Module 2A will have the capability to non-thermally treat 29,000 cubic feet of incoming waste annually on a single shift operation basis including waste pre-treatment and conditioning, size reduction, cement grout stabilization, polymer encapsulation, product sampling, and special waste treatment. WRAP 2A will have future expansion capability to levels specified in 40CFR Part 268.

This Subactivity provides support for startup which includes preparation of plans (startup, emergency response, facility effluent monitoring, maintenance, training, etc.), procedure development (operating, maintenance, training, administrative, etc.), and compliance reviews. Operation funding for this facility begins in FY 1999. These activities are outside the scope of startup contained in the Total Project Costs (TPC).

## RELATED ACTIVITIES NARRATIVE:

Related activities include waste retrieval (Phase 1 Retrieval, ads 2200-02) and waste storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Sufficient funding must be made available on a timely basis. The preliminary cost estimate showed a project TEC of \$81.9M, based on identified major cost drivers. The planning funding profile in FY 1996 causes some delays in construction and procurement that will be carried over to FY 1997. The delays will not impact the construction complete date but may impact the TEC slightly.

The waste immobilization demonstration program will identify an acceptable waste form.

The first draft of the WRAP Part B Permit was submitted to the State in October 1991. This permit will be modified to include specific details on Module 2A. If finalization of the permit is required prior to construction, WRAP construction schedules will be impacted by approximately one year.

ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6.  
Construction of mixed waste treatment capacity is required to process the large volume of stored waste in the Central Waste Complex.

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

The conceptual design for WRAP Module 2 was initiated in 1990, but was terminated in 1990 prior to completion due to funding constraints. Because of technical uncertainties associated with waste disposal at the Waste Isolation Pilot Plant, the original scope of WRAP Module 2 has been sub-modularized into WRAP 2A, MLLW Treatment, WRAP 2B, Remote-handled and Large Containers.

In FY 1992, it was determined that WRAP 2A would be a FY 1994 Line Item. Activities that restarted were project integration, completion of conceptual design, initiation of the waste immobilization demonstration program, and initiation of the advanced conceptual design. Key Decision 0 was obtained. Completed preparation of the preliminary safety evaluation and hazards analysis, prepared the NEPA C-2 analysis, and initiated the preparation of the Equipment Development Program Plan (EDPP).

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In FY 1994, project activities will continue with project integration, startup support with the initiation of the Startup Plan, continue the waste immobilization demonstration program, complete the advanced conceptual design report, continue engineering development (equipment development), prepare the PSAR and support preparation, submittal and approval of the NEPA documentation, air permit and RCRA Part B Permit application. Technical criteria definition and assessment will be completed to support the start of Preliminary Design (Title I). Key Decision 1 will be awarded. The Architect/Engineer will start Title I Design. Project management and construction management support will be provided. Discussions were initiated with the Washington State Department of Ecology and U.S.

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Environmental Protection Agency on privatization of the WRAP 2A functions.  
Parallel efforts on the project and privatization will continue.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G Issue Draft Interim Formulation Development Test Report. Issue Draft Product Specification.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G No activities planned.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G Draft startup plan completed. Establish the organizations for the operations and readiness review process for WRAP Module 2A. Revise startup plans and initiate readiness review activities. Begin to procure facilities spares.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G Provide issuance of FSAR, update RCRA Part B as required, continue safety/QA support, and provide support to readiness review/startup activities. Continue to staff-up for readiness review and plant operations. Initiate preparation of operating, test procedures, various operating and administrative procedures, readiness review documentation, etc. Plant startup activities will be completed to meet the proposed TPA milestone M-19-00 to initiate operations in September 1999. Preparation of operating procedures, operator training, operability testing, readiness reviews, and other required compliance reviews will be accomplished in FY 1997-1999 to support Key Decision 4 in August 1999, and initiation of operations in September 1999.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Supports Tri-Party Agreement milestones for the WRAP 2 (M-19-00 and M-25-00). WRAP 2 start-up delays will cause Tri-Party Agreement milestones to be missed.

Facilities will treat mixed waste to meet the standards specific in RCRA, mixed waste is considered LDR - disposal cannot be conducted until waste is treated to levels specified in 40CFR Part 268-50.

Specific regulations in addition to others required are:

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40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
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DOE Order 5480.23 - (Nuclear Safety Analysis Reports)  
DOE Order 5480.24 - (Nuclear Criticality Safety)  
DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)  
DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)  
DOE Order 5820.2A - (Radioactive Waste Management)  
DOE Order 6430.1A - (General Design Criteria)

## NESHAP REGULATIONS

## CAA REGULATIONS

## RCRA REGULATIONS

## TSCA REGULATIONS

**REGULATORY KEY ISSUES:**

The Tri-Party Agreement request for sub-modularization of WRAP 2 will be approved.

**COMP/PROG BENEFITS AT PLANNING LEVEL:**

The WRAP Module 2A will provide the processing necessary to prepare and certify Hanford retrievably stored and newly generated solid mixed low level wastes (MLLW) for final disposal. The Program benefits of the project are: Compliance with the Hanford Defense Waste Environmental Impact Statement Record of Decision; process and certify MLLW for disposal per RCRA and WAC requirements; and meet the Tri-Party Agreement Major Milestone M-19-00 and Interim Milestone M-19-01.

**CONCERNS AT PLANNING LEVEL:**

Mixed waste will continue to be generated at Hanford, and WRAP is the only facility that can efficiently provide the treatment necessary to enable final disposal of these wastes. Deferral or complete non-support for WRAP Module 2A will require the construction of more MW storage facilities, and potentially increase the difficulty and cost for treating and disposing of these wastes. Additionally, to defer the start of WRAP 2A, would create a RCRA violation with the potential to shut-down operations at Hanford. Deferral of WRAP Module 2A will also unnecessarily delay compliance with Tri-Party Agreement milestones and implementation of the HDW-EIS ROD.

The target funding constraints in FY 1995 will impact the project support activities such that the waste immobilization demonstration program, PSAR, permitting and equipment development activities will be constrained in support of the capital funded Title I Design activities. Efforts to privatize the WRAP 2A functions will continue. In FY 1996, efforts to privatize mixed waste treatment are fully supported. If privatization is unsuccessful, resumption of the project is funded in FY 1997 at \$40,000,000, however the project will incur a 20 month delay. The project funding is therefore reduced in the target case assuming successful privatization in meeting the requirements of the M-19-00 TPA milestone. A phased project support, construction, procurement and project management approach will have to be implemented in order to meet the continued funding constraints through project completion. Recovery of the project and design team may impact the estimated schedule and total project costs.

In the decrement case, where no funding is provided, the project schedule is delayed 18 months. All efforts to privatize this activity are delayed an equivalent duration. The M-19-00 TPA milestone will be missed.

**REQUIRED TECHNICAL DEVELOPMENT:**

Research and development necessary to complete construction: Waste immobilization demonstration, equipment development, prototype equipment designs, procurement, mock-up, and testing.





E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2230 ADS SUF: 1 SUBACTIVITY: AH

SUBACTIVITY TITLE: W-100 WRAP 2A DEFINITIVE DESIGN

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO: 94-D-411 TPC: 139900 TEC: 81900

DESCRIPTION: RICHLAND SOLID/LIQ WASTE & DEC-NFP

DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

TARGET CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
LI 39EW31302	4200	6303		1358	1358	862	1757	0	1522
TOTAL	4200	6303	0	1358	1358	862	1757	0	1522
DIRECT FTE	0	0	0	0	0	0	0	0	0

PLANNING CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
LI 39EW31302	4200	6998	3257		3257	700	600	0	0
TOTAL	4200	6998	3257	0	3257	700	600	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

The mission of the WRAP 2A Facility is to receive, process, package, and certify for permanent burial at the Hanford Site disposal facilities those contact handled (CH) radioactive mixed low-level solid wastes (MLLW) that: (1) are currently in retrievable storage at the Hanford Central Waste Complex awaiting a treatment capability to permit permanent disposal compliant with the Land Disposal Restrictions; (2) are forecasted to be generated over the next 30 years by clean-up work at the Site; and (3) waste to be shipped to the Hanford Site from other U.S. Department of Energy Sites. Completion of this facility fulfills Tri-Party Agreement milestone M-19-00.

WRAP Module 2A is the Subproject that provides treatment capability as part of the Solid Waste Operations Complex (SWOC) MSA for retrieval, storage and treatment. WRAP Module 2A will have the capability to non-thermally treat 29,000 cubic feet of incoming waste annually on a single shift operation basis including waste pre-treatment and conditioning, size reduction, cement grout stabilization, polymer encapsulation, product sampling, and special waste treatment. WRAP 2A will have future expansion capability to levels specified in 40CFR Part 268.

This Subactivity provides for Architect/Engineer (A/E) preparation of the Definitive Design, which includes Preliminary Design (Title I) and Detailed Design (Title II). The Title II Design will include drawing specifications, construction schedules, and cost estimated for the design/construction packages. This Subactivity also provides for Field Engineering and Inspection (Title III) activities to include: ECNs/NCRs, as-builts, configuration management, fair cost estimates and submittal review to be performed by the offsite A/E, and oversight/acceptance inspection for construction to be performed by the onsite A/E.

## RELATED ACTIVITIES NARRATIVE:

Related activities include waste retrieval (Phase 1 Retrieval, ads 2200-02) and waste storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Sufficient funding must be made available on a timely basis. The preliminary cost estimate showed a project TEC of \$81.9M, based on identified major cost drivers. The planning funding profile in FY 1996 causes some delays in construction and procurement that will be carried over to FY 1997. The delays will not impact the construction complete date but may impact the TEC slightly.

The waste immobilization demonstration program will identify an acceptable

waste form.

The first draft of the WRAP Part B Permit was submitted to the State in October 1991. This permit will be modified to include specific details on Module 2A. If finalization of the permit is required prior to construction, WRAP construction schedules will be impacted by approximately one year.

#### ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6.  
Construction of mixed waste treatment capacity is required to process the large volume of stored waste in the Central Waste Complex.

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

The conceptual design for WRAP Module 2 was initiated in 1990, but was terminated in 1990 prior to completion due to funding constraints. Because of technical uncertainties associated with waste disposal at the Waste Isolation Pilot Plant, the original scope of WRAP Module 2 has been sub-modularized into WRAP 2A, MLLW Treatment, WRAP 2B, Remote-handled and Large Containers.

In FY 1992, it was determined that WRAP 2A would be a FY 1994 Line Item. Activities that restarted were project integration, completion of conceptual design, initiation of the waste immobilization demonstration program, and initiation of the advanced conceptual design. Key Decision 0 was obtained. Completed preparation of the preliminary safety evaluation and hazards analysis, prepared the NEPA C-2 analysis, and initiated the preparation of the Equipment Development Program Plan (EDPP).

In FY 1993, activities continued with project integration, startup support, initiation of the engineering development program and issuance of the EDPP, and safety and quality assurance support. A successful ICE review was conducted, the Project Plan was prepared and submitted to DOE-HQ, revised C.2 Analysis was submitted for approval, various Waste Immobilization Demonstration Program activities completed to confirm the baseline process selection, and ACDR studies were completed 60% and 90%.

In FY 1994, project activities will continue with project integration, startup support with the initiation of the Startup Plan, continue the waste immobilization demonstration program, complete the advanced conceptual design report, continue engineering development (equipment development), prepare the PSAR and support preparation, submittal and approval of the NEPA documentation, air permit and RCRA Part B Permit application. Technical criteria definition and assessment will be completed to support the start of Preliminary Design (Title I). Key Decision 1 will be awarded. The Architect/Engineer will start Title I Design. Project management and

construction management support will be provided. Discussions were initiated with the Washington State Department of Ecology and U.S. Environmental Protection Agency on privatization of the WRAP 2A functions. Parallel efforts on the project and privatization will continue.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G Initiate Preliminary Design (Title I) with the offsite A/E.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G Completion of the Preliminary Design. Award of Key Decision 2 to proceed with Detailed Design (Title II). Initiation of Detailed Design with offsite A/E.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G Completion of Detailed Design. Award of Key Decision 3 to proceed with construction of WRAP 2A. Begin Field Engineering and Inspection activities with the start of construction, March 1996.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G Continue Field Engineering and Inspection activities until project construction completion.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Supports Tri-Party Agreement milestones for the WRAP 2 (M-19-00 and M-25-00). WRAP 2 start-up delays will cause Tri-Party Agreement milestones to be missed.

Facilities will treat mixed waste to meet the standards specific in RCRA, mixed waste is considered LDR - disposal cannot be conducted until waste is treated to levels specified in 40CFR Part 268-50.

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
40CFR 60 - (Standards of Performance for New Stationary Sources) 40CFR 61 - (Radiation Emission Standards)  
40CFR 61 - (National Emission Standards for Hazardous Air Pollutants)  
40CFR 260 - (Hazardous Waste Management System)  
40CFR 261 - (Identification and Listing of Hazardous Waste)  
40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)  
40CFR 264 - (Resource Conservation and Recovery Act (RCRA))  
40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

## WASHINGTON STATE REGULATIONS

WAC 173-303 - (Dangerous Waste Regulations)  
WAC 173-400 - (General Regulations for Air Pollution Sources)  
WAC 296-155 - (Washington Industrial Safety and Health Act)

## DEPARTMENT OF ENERGY ORDERS

DOE Order 4700.1A - (Project Management System)  
DOE Order 5400.1 - (General Environmental Protection Program)  
DOE Order 5400.5 - (Radiation Protection of the Public and the Environment)  
DOE Order 5480.1B - (Environmental, Safety, and Health Program for DOE Operations)  
DOE Order 5480.22 - (Technical Safety Requirements)  
DOE Order 5480.23 - (Nuclear Safety Analysis Reports)  
DOE Order 5480.24 - (Nuclear Criticality Safety)  
DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)  
DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)  
DOE Order 5820.2A - (Radioactive Waste Management)  
DOE Order 6430.1A - (General Design Criteria)

## NESHAP REGULATIONS

## CAA REGULATIONS

## RCRA REGULATIONS

## TSCA REGULATIONS

**REGULATORY KEY ISSUES:**

The Tri-Party Agreement request for sub-modularization of WRAP 2 will be approved.

**COMP/PROG BENEFITS AT PLANNING LEVEL:**

The WRAP Module 2A will provide the processing necessary to prepare and certify Hanford retrievably stored and newly generated solid mixed low level wastes (MLLW) for final disposal. The Program benefits of the project are: Compliance with the Hanford Defense Waste Environmental Impact Statement Record of Decision; process and certify MLLW for disposal per RCRA and WAC requirements; and meet the Tri-Party Agreement Major Milestone M-19-00 and Interim Milestone M-19-01.

**CONCERNS AT PLANNING LEVEL:**

Mixed waste will continue to be generated at Hanford, and WRAP is the only facility that can efficiently provide the treatment necessary to enable final disposal of these wastes. Deferral or complete non-support for WRAP Module 2A will require the construction of more MW storage facilities, and potentially increase the difficulty and cost for treating and disposing of these wastes. Additionally, to defer the start of WRAP 2A, would create a RCRA violation with the potential to shut-down operations at Hanford. Deferral of WRAP Module 2A will also unnecessarily delay compliance with Tri-Party Agreement milestones and implementation of the HDW-EIS ROD.

The target funding constraints in FY 1995 will impact the project support activities such that the waste immobilization demonstration program, PSAR, permitting and equipment development activities will be constrained in support of the capital funded Title I Design activities. Efforts to privatize the WRAP 2A functions will continue. In FY 1996, efforts to privatize mixed waste treatment are fully supported. If privatization is unsuccessful, resumption of the project is funded in FY 1997 at \$40,000,000, however the project will incur a 20 month delay. The project funding is therefore reduced in the target case assuming successful privatization in meeting the requirements of the M-19-00 TPA milestone. A phased project support, construction, procurement and project management approach will have to be implemented in order to meet the continued funding constraints through project completion. Recovery of the project and design team may impact the estimated schedule and total project costs.

In the decrement case, where no funding is provided, the project schedule is delayed 18 months. All efforts to privatize this activity are delayed an equivalent duration. The M-19-00 TPA milestone will be missed.

**REQUIRED TECHNICAL DEVELOPMENT:**

Research and development necessary to complete construction: Waste immobilization demonstration, equipment development, prototype equipment designs, procurement, mock-up, and testing.





OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2230 ADS SUF: 1 SUBACTIVITY: AI

SUBACTIVITY TITLE: W-100 WRAP 2A CONSTRUCTION

INSTALLATION: HANFORD

CATEGORY: WM

DEFENSE/NON-DEFENSE:

VERSION DATE: 5/12/93

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 94-D-411

TPC: 139900

TEC: 81900

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
LI 39EW31302	100	405			6843	6843	33644	6980	0 8842
TOTAL	100	405	0		6843	6843	33644	6980	0 8842
DIRECT FTE	0	0	0		0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
LI 39EW31302	100	900	17843			17843	42203	2500	0 0
TOTAL	100	900	17843	0		17843	42203	2500	0 0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The mission of the WRAP 2A Facility is to receive, process, package, and certify for permanent burial at the Hanford Site disposal facilities those contact handled (CH) radioactive mixed low-level solid wastes (MLLW) that: (1) are currently in retrievable storage at the Hanford Central Waste Complex awaiting a treatment capability to permit permanent disposal compliant with the Land Disposal Restrictions; (2) are forecasted to be generated over the next 30 years by clean-up work at the Site; and (3) waste to be shipped to the Hanford Site from other U.S. Department of Energy Sites. Completion of this facility fulfills Tri-Party Agreement milestone M-19-00.

WRAP Module 2A is the Subproject that provides treatment capability as part of the Solid Waste Operations Complex (SWOC) MSA for retrieval, storage and treatment. WRAP Module 2A will have the capability to non-thermally treat 29,000 cubic feet of incoming waste annually on a single shift operation basis including waste pre-treatment and conditioning, size reduction, cement grout stabilization, polymer encapsulation, product sampling, and special waste treatment. WRAP 2A will have future expansion capability to levels specified in 40CFR Part 268.

This Subactivity provides for the construction of the WRAP 2A project. The Subactivity also provides for construction management services by the construction contractor. Those services will include: support construction planning and constructability reviews; prepare, evaluate and send bid packages; contract administration; work planning and tracking; and work statusing and reporting.

## RELATED ACTIVITIES NARRATIVE:

Related activities include waste retrieval (Phase 1 Retrieval, ads 2200-02) and waste storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Sufficient funding must be made available on a timely basis. The preliminary cost estimate showed a project TEC of \$81.9M, based on identified major cost drivers. The planning funding profile in FY 1996 causes some delays in construction and procurement that will be carried over to FY 1997. The delays will not impact the construction complete date but may impact the TEC slightly.

The waste immobilization demonstration program will identify an acceptable waste form.

The first draft of the WRAP Part B Permit was submitted to the State in

October 1991. This permit will be modified to include specific details on Module 2A. If finalization of the permit is required prior to construction, WRAP construction schedules will be impacted by approximately one year.

ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6.  
Construction of mixed waste treatment capacity is required to process the large volume of stored waste in the Central Waste Complex.

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

The conceptual design for WRAP Module 2 was initiated in 1990, but was terminated in 1990 prior to completion due to funding constraints. Because of technical uncertainties associated with waste disposal at the Waste Isolation Pilot Plant, the original scope of WRAP Module 2 has been sub-modularized into WRAP 2A, MLLW Treatment, WRAP 2B, Remote-handled and Large Containers.

In FY 1992, it was determined that WRAP 2A would be a FY 1994 Line Item. Activities that restarted were project integration, completion of conceptual design, initiation of the waste immobilization demonstration program, and initiation of the advanced conceptual design. Key Decision 0 was obtained. Completed preparation of the preliminary safety evaluation and hazards analysis, prepared the NEPA C-2 analysis, and initiated the preparation of the Equipment Development Program Plan (EDPP).

In FY 1993, activities continued with project integration, startup support, initiation of the engineering development program and issuance of the EDPP, and safety and quality assurance support. A successful ICE review was conducted, the Project Plan was prepared and submitted to DOE-HQ, revised C.2 Analysis was submitted for approval, various Waste Immobilization Demonstration Program activities completed to confirm the baseline process selection, and ACDR studies were completed 60% and 90%.

In FY 1994, project activities will continue with project integration, startup support with the initiation of the Startup Plan, continue the waste immobilization demonstration program, complete the advanced conceptual design report, continue engineering development (equipment development), prepare the PSAR and support preparation, submittal and approval of the NEPA documentation, air permit and RCRA Part B Permit application. Technical criteria definition and assessment will be completed to support the start of Preliminary Design (Title I). Key Decision 1 will be awarded. The Architect/Engineer will start Title I Design. Project management and construction management support will be provided. Discussions were initiated with the Washington State Department of Ecology and U.S. Environmental Protection Agency on privatization of the WRAP 2A functions.

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Parallel efforts on the project and privatization will continue.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G No activities planned.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G Construction Management support is provided during Definitive Design. Construction package preparation will be initiated.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G Request for Quotes will be issued with the award of the contract in June 1996. Commence construction.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G Construction completion scheduled for September 1998.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Supports Tri-Party Agreement milestones for the WRAP 2 (M-19-00 and M-25-00). WRAP 2 start-up delays will cause Tri-Party Agreement milestones to be missed.

Facilities will treat mixed waste to meet the standards specific in RCRA, mixed waste is considered LDR - disposal cannot be conducted until waste is treated to levels specified in 40CFR Part 268-50.

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
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40CFR 61 - (National Emission Standards for Hazardous Air Pollutants)  
40CFR 260 - (Hazardous Waste Management System)  
40CFR 261 - (Identification and Listing of Hazardous Waste)  
40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)  
40CFR 264 - (Resource Conservation and Recovery Act (RCRA))  
40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

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DOE Order 5480.1B - (Environmental, Safety, and Health Program for DOE Operations)  
DOE Order 5480.22 - (Technical Safety Requirements)  
DOE Order 5480.23 - (Nuclear Safety Analysis Reports)  
DOE Order 5480.24 - (Nuclear Criticality Safety)  
DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)  
DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)  
DOE Order 5820.2A - (Radioactive Waste Management)  
DOE Order 6430.1A - (General Design Criteria)

## NESHAP REGULATIONS

## CAA REGULATIONS

## RCRA REGULATIONS

## TSCA REGULATIONS

**REGULATORY KEY ISSUES:**

The Tri-Party Agreement request for sub-modularization of WRAP 2 will be approved.

**COMP/PROG BENEFITS AT PLANNING LEVEL:**

The WRAP Module 2A will provide the processing necessary to prepare and certify Hanford retrievably stored and newly generated solid mixed low level wastes (MLLW) for final disposal. The Program benefits of the project are: Compliance with the Hanford Defense Waste Environmental Impact Statement Record of Decision; process and certify MLLW for disposal per RCRA and WAC requirements; and meet the Tri-Party Agreement Major Milestone M-19-00 and Interim Milestone M-19-01.

**CONCERNS AT PLANNING LEVEL:**

Mixed waste will continue to be generated at Hanford, and WRAP is the only facility that can efficiently provide the treatment necessary to enable final disposal of these wastes. Deferral or complete non-support for WRAP Module 2A will require the construction of more MW storage facilities, and potentially increase the difficulty and cost for treating and disposing of these wastes. Additionally, to defer the start of WRAP 2A, would create a RCRA violation with the potential to shut-down operations at Hanford. Deferral of WRAP Module 2A will also unnecessarily delay compliance with Tri-Party Agreement milestones and implementation of the HDW-EIS ROD.

The target funding constraints in FY 1995 will impact the project support activities such that the waste immobilization demonstration program, PSAR, permitting and equipment development activities will be constrained in support of the capital funded Title I Design activities. Efforts to privatize the WRAP 2A functions will continue. In FY 1996, efforts to privatize mixed waste treatment are fully supported. If privatization is unsuccessful, resumption of the project is funded in FY 1997 at \$40,000,000, however the project will incur a 20 month delay. The project funding is therefore reduced in the target case assuming successful privatization in meeting the requirements of the M-19-00 TPA milestone. A phased project support, construction, procurement and project management approach will have to be implemented in order to meet the continued funding constraints through project completion. Recovery of the project and design team may impact the estimated schedule and total project costs.

In the decrement case, where no funding is provided, the project schedule is delayed 18 months. All efforts to privatize this activity are delayed an equivalent duration. The M-19-00 TPA milestone will be missed.

**REQUIRED TECHNICAL DEVELOPMENT:**

Research and development necessary to complete construction: Waste immobilization demonstration, equipment development, prototype equipment designs, procurement, mock-up, and testing.





OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2230 ADS SUF: 1 SUBACTIVITY: AJ

SUBACTIVITY TITLE: W-100 WRAP 2A PROJECT MANAGEMENT

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: 94-D-411 TPC: 139900 TEC: 81900

DESCRIPTION: RICHLAND SOLID/LIQ WASTE & DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
LI 39EW31302	400	540			208	208	425	504	0
TOTAL	400	540	0		208	208	425	504	0
DIRECT FTE	0	0	0		0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
LI 39EW31302	400	600	500			500	1100	0	0
TOTAL	400	600	500	0		500	1100	0	0
DIRECT FTE	0	0	0	0		0	0	0	0

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The mission of the WRAP 2A Facility is to receive, process, package, and certify for permanent burial at the Hanford Site disposal facilities those contact handled (CH) radioactive mixed low-level solid wastes (MLLW) that: (1) are currently in retrievable storage at the Hanford Central Waste Complex awaiting a treatment capability to permit permanent disposal compliant with the Land Disposal Restrictions; (2) are forecasted to be generated over the next 30 years by clean-up work at the Site; and (3) waste to be shipped to the Hanford Site from other U.S. Department of Energy Sites. Completion of this facility fulfills Tri-Party Agreement milestone M-19-00.

WRAP Module 2A is the Subproject that provides treatment capability as part of the Solid Waste Operations Complex (SWOC) MSA for retrieval, storage and treatment. WRAP Module 2A will have the capability to non-thermally treat 29,000 cubic feet of incoming waste annually on a single shift operation basis including waste pre-treatment and conditioning, size reduction, cement grout stabilization, polymer encapsulation, product sampling, and special waste treatment. WRAP 2A will have future expansion capability to levels specified in 40CFR Part 268.

This Subactivity provides for project management support by the operating contractor to facilitate project interface with the Architect/Engineer, Construction Management and DOE. Project management also provides for Resident Engineer support, Project Engineer support, and Engineering Manager support.

## RELATED ACTIVITIES NARRATIVE:

Related activities include waste retrieval (Phase 1 Retrieval, ads 2200-02) and waste storage (Phase V Storage, ADS 2200-01).

## KEY ASSUMPTIONS:

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Sufficient funding must be made available on a timely basis. The preliminary cost estimate showed a project TEC of \$81.9M, based on identified major cost drivers. The planning funding profile in FY 1996 causes some delays in construction and procurement that will be carried over to FY 1997. The delays will not impact the construction complete date but may impact the TEC slightly.

The waste immobilization demonstration program will identify an acceptable waste form.

The first draft of the WRAP Part B Permit was submitted to the State in October 1991. This permit will be modified to include specific details on

Module 2A. If finalization of the permit is required prior to construction, WRAP construction schedules will be impacted by approximately one year.

#### ACTIVITY BY PRIORITY:

RL Priority B1. Hanford Site Priority 26. HQ Priority 2, 3, 4, 6. Construction of mixed waste treatment capacity is required to process the large volume of stored waste in the Central Waste Complex.

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

The conceptual design for WRAP Module 2 was initiated in 1990, but was terminated in 1990 prior to completion due to funding constraints. Because of technical uncertainties associated with waste disposal at the Waste Isolation Pilot Plant, the original scope of WRAP Module 2 has been sub-modularized into WRAP 2A, MLLW Treatment, WRAP 2B, Remote-handled and Large Containers.

In FY 1992, it was determined that WRAP 2A would be a FY 1994 Line Item. Activities that restarted were project integration, completion of conceptual design, initiation of the waste immobilization demonstration program, and initiation of the advanced conceptual design. Key Decision 0 was obtained. Completed preparation of the preliminary safety evaluation and hazards analysis, prepared the NEPA C-2 analysis, and initiated the preparation of the Equipment Development Program Plan (EDPP).

In FY 1993, activities continued with project integration, startup support, initiation of the engineering development program and issuance of the EDPP, and safety and quality assurance support. A successful ICE review was conducted, the Project Plan was prepared and submitted to DOE-HQ, revised C.2 Analysis was submitted for approval, various Waste Immobilization Demonstration Program activities completed to confirm the baseline process selection, and ACDR studies were completed 60% and 90%.

In FY 1994, project activities will continue with project integration, startup support with the initiation of the Startup Plan, continue the waste immobilization demonstration program, complete the advanced conceptual design report, continue engineering development (equipment development), prepare the PSAR and support preparation, submittal and approval of the NEPA documentation, air permit and RCRA Part B Permit application. Technical criteria definition and assessment will be completed to support the start of Preliminary Design (Title I). Key Decision 1 will be awarded. The Architect/Engineer will start Title I Design. Project management and construction management support will be provided. Discussions were initiated with the Washington State Department of Ecology and U.S. Environmental Protection Agency on privatization of the WRAP 2A functions. Parallel efforts on the project and privatization will continue.



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

## CURRENT YEAR (FY 1994) TASK NARRATIVE:

^G Provide project management support.

## FY 1995 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

## BUDGET YEAR (FY 1995) TASK NARRATIVE:

^G Provide project management support.

## FY 1996 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

## PLANNING YEAR (FY 1996) TASK NARRATIVE:

^G Provide project management support.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

^G Provide project management support.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Supports Tri-Party Agreement milestones for the WRAP 2 (M-19-00 and M-25-00). WRAP 2 start-up delays will cause Tri-Party Agreement milestones to be missed.

Facilities will treat mixed waste to meet the standards specific in RCRA, mixed waste is considered LDR - disposal cannot be conducted until waste is treated to levels specified in 40CFR Part 268-50.

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
40CFR 60 - (Standards of Performance for New Stationary Sources) 40CFR 61 - (Radiation Emission Standards)  
40CFR 61 - (National Emission Standards for Hazardous Air Pollutants)  
40CFR 260 - (Hazardous Waste Management System)  
40CFR 261 - (Identification and Listing of Hazardous Waste)  
40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)  
40CFR 264 - (Resource Conservation and Recovery Act (RCRA))  
40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

## WASHINGTON STATE REGULATIONS

WAC 173-303 - (Dangerous Waste Regulations)  
WAC 173-400 - (General Regulations for Air Pollution Sources)  
WAC 296-155 - (Washington Industrial Safety and Health Act)

## DEPARTMENT OF ENERGY ORDERS

DOE Order 4700.1A - (Project Management System)  
DOE Order 5400.1 - (General Environmental Protection Program)  
DOE Order 5400.5 - (Radiation Protection of the Public and the Environment)  
DOE Order 5480.1B - (Environmental, Safety, and Health Program for DOE Operations)  
DOE Order 5480.22 - (Technical Safety Requirements)  
DOE Order 5480.23 - (Nuclear Safety Analysis Reports)  
DOE Order 5480.24 - (Nuclear Criticality Safety)  
DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)  
DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)  
DOE Order 5820.2A - (Radioactive Waste Management)  
DOE Order 6430.1A - (General Design Criteria)

## NESHAP REGULATIONS

## CAA REGULATIONS

## RCRA REGULATIONS

## TSCA REGULATIONS

**REGULATORY KEY ISSUES:**

The Tri-Party Agreement request for sub-modularization of WRAP 2 will be approved.

**COMP/PROG BENEFITS AT PLANNING LEVEL:**

The WRAP Module 2A will provide the processing necessary to prepare and certify Hanford retrievably stored and newly generated solid mixed low level wastes (MLLW) for final disposal. The Program benefits of the project are: Compliance with the Hanford Defense Waste Environmental Impact Statement Record of Decision; process and certify MLLW for disposal per RCRA and WAC requirements; and meet the Tri-Party Agreement Major Milestone M-19-00 and Interim Milestone M-19-01.

**CONCERNS AT PLANNING LEVEL:**

Mixed waste will continue to be generated at Hanford, and WRAP is the only facility that can efficiently provide the treatment necessary to enable final disposal of these wastes. Deferral or complete non-support for WRAP Module 2A will require the construction of more MW storage facilities, and potentially increase the difficulty and cost for treating and disposing of these wastes. Additionally, to defer the start of WRAP 2A, would create a RCRA violation with the potential to shut-down operations at Hanford. Deferral of WRAP Module 2A will also unnecessarily delay compliance with Tri-Party Agreement milestones and implementation of the HDW-EIS ROD.

The target funding constraints in FY 1995 will impact the project support activities such that the waste immobilization demonstration program, PSAR, permitting and equipment development activities will be constrained in support of the capital funded Title I Design activities. Efforts to privatize the WRAP 2A functions will continue. In FY 1996, efforts to privatize mixed waste treatment are fully supported. If privatization is unsuccessful, resumption of the project is funded in FY 1997 at \$40,000,000, however the project will incur a 20 month delay. The project funding is therefore reduced in the target case assuming successful privatization in meeting the requirements of the M-19-00 TPA milestone. A phased project support, construction, procurement and project management approach will have to be implemented in order to meet the continued funding constraints through project completion. Recovery of the project and design team may impact the estimated schedule and total project costs.

In the decrement case, where no funding is provided, the project schedule is delayed 18 months. All efforts to privatize this activity are delayed an equivalent duration. The M-19-00 TPA milestone will be missed.

**REQUIRED TECHNICAL DEVELOPMENT:**

Research and development necessary to complete construction: Waste immobilization demonstration, equipment development, prototype equipment designs, procurement, mock-up, and testing.





OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2250 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: W-255 WRAP 2B

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

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LINE ITEM NO: TPC: TEC:

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0	0		0	1990	1682	3843	4086
CE 35EW31302	0	0	0		0	0	0	1310	920
LI 39EW31302	0	0	0		0	0	0	3802	7897
TOTAL	0	0	0	0	0	1990	1682	8956	12903
DIRECT FTE	0	0	0	0	0	11	15	18	15

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0	1150		1150	2635	3734	3257	1579
CE 35EW31302	0	0	0		0	0	0	1310	917
LI 39EW31302	0	0	0		0	0	0	9483	12601
TOTAL	0	0	1150	0	1150	2635	3734	14050	15097
DIRECT FTE	0	0	9	0	9	15	16	30	37

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

This activity supports the project, technical, and support work necessary to design, construct, and operate the Waste Receiving and Processing (WRAP) Module 2B. WRAP Module 2B is a new, planned facility (located at the 200 West Area of Hanford) that will provide treatment for several waste types currently stored at Hanford and projected to be generated after 1990. These wastes include over 265,000 cubic feet of suspect Transuranic (TRU) solid waste stored (65% of total) at Hanford in large boxes and non-standard containers, and over 4,000 cubic feet (35% of total) of remote-handled suspect TRU waste. It is anticipated that work associated with the Tri-Party Agreement milestone M-33-00 will require a facility for remote handling of suspect TRU waste. WRAP Module 2B is the only Hanford Facility that enables these wastes to be treated, transported to, and emplaced in final disposal at the Waste Isolation Pilot Plant (WIPP) in New Mexico.

This activity will provide for completion of the conceptual design, initiation and completion of the definitive design, procurement, construction, testing, start-up, and operational readiness review of WRAP Module 2B. This will also include such support activities as preparation of safety evaluations, engineering permits and documentation, feasibility evaluations, engineering trade-off studies, systems and software development, project management, ALARA studies, waste acceptance criteria, and monitoring of interfaces with other Hanford projects and facilities such as retrieval. Other project related expense funded activities will include demonstrations required to support the technical basis, process development, equipment testing and adaptation, material selection, operating procedures, and readiness review.

Needs for technology adaption include remote-handled waste assay systems, waste handling system, verification of the waste treatment techniques, remote-handling and maintenance techniques, and identification of waste sampling and characterization requirements and methodologies. Head space sampling for RCRA Volatile Organic Compounds (VOCs) and flammable gases will be investigated.

## RELATED ACTIVITIES NARRATIVE:

This activity will create a facility that receives its feed from Phase 2 Retrieval (ADS 2250-0-AB), Phase V Storage (ADS 2200-1), caisson retrieval (ADS 2250-0-AD), and newly generated waste. Concurrently, privatization efforts are being pursued under ADS 2200-0-AW to identify a private vendor who will accept waste designated for WRAP 2B, provide treatment, and return the waste to Solid Waste Programs for disposal at Hanford, or final emplacement at WIPP.

## KEY ASSUMPTIONS:

It is assumed that the WRAP Module 2A portion (ADS 2230-1) following sub-modularization of WRAP 2, will meet the requirements imposed by the Tri-Party Agreement (TPA) milestone M-19-00. It is further assumed that

activities associated with TPA M-33-00 will identify the need for a facility to provide remote handled waste treatment prior to emplacement for disposal at the WIPP site. This activity addresses and provides the remote handled waste treatment facility required to successfully meet the TPA milestone M-33-00.

ACTIVITY BY PRIORITY:

All activities are DOE-HQ Priority 2 and RL Priority B1.

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

The conceptual design for WRAP Module 2 was initiated in 1990, but was terminated in 1990 prior to completion due to funding constraints. Several engineering evaluations were identified for completion as part of the conceptual design. Because of technical uncertainties associated with waste disposal at the WIPP, the original scope of WRAP Module 2 has been sub-modularized into WRAP Module 2A (ADS 2230-1), Low-Level Mixed Waste Treatment; and WRAP Module 2B (ADS 2250-0-AA), Size Reduction and Remote-Handling. This description addresses WRAP Module 2B.

An engineering strategy assessment to evaluate alternatives for TRU treatment was completed in March 1993 and submitted to the regulators. As part of the FY93 TPA renegotiations, the M-33-00 milestone was created to address both the multipurpose storage complex scope and the WRAP Module 2B scope.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

This activity was not funded in FY 1994.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

This activity was not funded in FY 1995.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

The planning case funding for WRAP 2B for FY 1996 provides for the completion of the Functional Design Criteria (FDC) and the Hazards Classification document. Work involved with the Engineering Safety Study will be initiated.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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2250-00-0080	Complete WRAP 2B FDC	9/30/94	9/30/97
2250-00-0075	Complete WRAP 2B Conceptual Design	9/30/95	3/31/98
2250-00-0055	Initiate WRAP 2B Design	9/30/99	1/01/00

## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

In the planning case, the conceptual design report, advanced conceptual design report, and Title I design will be completed during the five year period. Title II design will be initiated. The Preliminary Safety Evaluation (PSE) will be completed, and work on the Preliminary Safety Analysis Report (PSAR) will be initiated. Efforts required for NEPA documentation and facility air permitting will be initiated. Procurement of NDE/NDA Equipment Spares will occur late in the five year period.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

The U.S. Department of Energy has written commitments to the public, the State of Washington, and the Federal Environmental Protection Agency to construct WRAP Module 2. These written commitments are in the form of the Record of Decision for the Hanford Defense Waste Environmental Impact which was published in the Federal Register in 1988, and the Tri-Party Agreement (M-19-00) which was signed in 1989. Modularization of WRAP into Modules 2A and 2B have been completed such that Module 2A will meet the intent of M-19-00. However, it is anticipated that the remote handling capability provided by WRAP Module 2B will be required to meet the intent of TPA M-33-00.

## Applicable Regulations Include:

40CFR 261.1(c)(8) - (Prohibition of speculative accumulation)  
40CFR 262.34 - (Restriction on waste accumulation)  
40CFR 264, Subpart B - (General facility standards)  
40CFR 268-50 Subpart E - Prohibition on storage of land disposal restricted waste

WAC 173-303-016(5)(d) - (Prohibition of speculative accumulation)  
WAC 173-303-200 - (Restrictions on waste accumulation)

DOE Order 5820.2A - (Radioactive waste management)

## REGULATORY KEY ISSUES:

The availability of the Waste Isolation Pilot Plant (WIPP) to receive TRU waste remains an issue.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

Operation of this facility will remain in phase with operation of WRAP 1, TRU Retrieval Operations, and the WIPP schedule. Capabilities of the facility are required for the treatment of reactor irradiated nuclear material to be retrieved from the 200 Area Burial Grounds as addressed in the action plan for the DOE-HQ Spent Fuel Vulnerability Assessment.

## CONCERNS AT PLANNING LEVEL:

The storage of material handled as TRU waste in boxes and other non-standard containers including Reactor Irradiated Nuclear Materials (RINM) began at Hanford in 1970, with the objective they would be retrieved within 20 years. By the planned start-up of WRAP Module 2B in 2004, some of these will have been in underground storage for 30+ years. This extended storage has already contributed to the deterioration of these containers, complicating the retrieval, handling, and onsite transportation of this waste.

Deferral of WRAP Module 2B will allow further deterioration of these containers, with potential resultant increases in cost and potential worker radiation exposure during retrieval, transportation, and handling.

REQUIRED TECHNICAL DEVELOPMENT:

No technology development is required. Adaption of current technology will be undertaken.

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2250 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: W-221 PHASE 2 RETRIEVAL

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0		0	0	0	0	0	2120
TOTAL	0	0	0	0	0	0	0	0	2120
DIRECT FTE	0	0	0	0	0	0	0	0	7

## PLANNING CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0		2433	2433	3169	2609	2615	1656
CE 35EW31302	0	0	0		0	0	0	655	655
LI 39EW31302	0	0		0	0	0	0	6642	12879
TOTAL	0	0	0	2433	2433	3169	2609	9912	15190
DIRECT FTE	0	0	0	10	10	8	9	35	45

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

This activity supports completion of engineering studies, preparation of the functional design criteria, conceptual designs, demonstration of the application of certain technology for waste retrieval, and management activities related to design, construction, and start-up of the Phase 2 Retrieval Facility that will be built to retrieve suspect Transuranic (TRU) waste from storage trenches. This project will provide the facilities required to retrieve the reactor irradiated nuclear material from the 200 Area Burial Ground as addressed in the action plan for the DOE-HQ Spent Fuel Vulnerability Assessment.

Phase 1 Retrieval (Project W-113) Activity Data Sheet (ADS) 2200-02, identifies 1 of the 25 trenches in which TRU waste is stored and 1 of 6 trenches where all of the containers are expected to be Contact Handled (CH) and where there is a high probability of retrieving and handling waste packages that are intact and without risk of spreading contamination.

The Phase 2 facilities (Project W-221), will address the remaining trenches, some of which contain drums stacked on their sides; directly against the soil; and directly covered by earth and one trench which contains drums stacked in a concrete 'V' enclosure. About 8,000 drums and 300 boxes (850 m<sup>3</sup>), including wooden boxes and cardboard cartons, have been buried in this manner. A great number of these containers are expected to be degraded beyond the capability of handling without specially designed equipment. Over 100 drums and 40 boxes buried in this configuration are Remote-Handled (RH). The facility for the retrieval of these containers will require RH capability for recovering and repackaging waste from degraded containers and the packaging of contaminated soils. The facility will also be required to provide contamination confinement during any or all of the retrieval operations. Of the remaining Phase 2 drums and boxes (approximately 19,000 and 630 respectively) it is estimated that 8,000 drums and 530 boxes (6,000 m<sup>3</sup>) will be retrieved by facilities identical or similar to the Phase 1 Retrieval facility. The remainder of the waste containers, about 10,000 drums and 100 boxes (450 ft<sup>3</sup>), have a storage configuration similar to the waste to be retrieved in Phase 1 but will have been in storage significantly longer, are stored on earthen floor, or include a significant number of RH containers. The trench has a curbed asphalt floor sloped for drainage and the waste containers are vertically stacked in 19 separate modules (12 drums wide by 12 drums long by 4 tiers high) with plywood placed between each tier and on the top of each module. Each module is covered with a vinyl tarp and backfilled with earth cover. Without any available characterization of the condition of these containers, it is assumed that some degree of special handling equipment will be required for retrieval of some of these containers.

Included in the Phase II retrieval task is the retrieval of casks containing stored Reactor Irradiated Nuclear Materials (RINM) managed as Remote-Handled TRU waste. There is approximately 279 kg of uranium and 247 kg of plutonium being stored in 200 West burial grounds. The RINM is contained in storage casks (i.e., concrete liners, zircaloy containers, 55 gallon drums filled with concrete, and EBR II casks) which contain a variety of materials from the FAST Critical Facility and SEFOR GE,



Vallecitos, California, TRIGRA Reactor fuel assemblies, and Hanford 'K' reactor americium target elements.

The record of decision for the Hanford Defense Waste-Environmental Impact Statement (HDW-EIS) Record of Decision (ROD) approves waste retrieval as the preferred alternative.

RELATED ACTIVITIES NARRATIVE:

This activity is related to Project W-113, 'Phase 1 Retrieval' (ADS 2200-2); Project W-255, 'WRAP 2B' (ADS 2250-0-AA); and TRU Trench Characterization (ADS 2200-0-AF).

KEY ASSUMPTIONS:

Retrieval of waste is required by DOE Orders, and the record of decision for the HDW-EIS on waste operations.

Retrieval operations must be started, conducted, and completed in a timely manner that will support the operations in the Waste Receiving and Processing (WRAP) Facility and avoid further contamination of the environment. The Waste Isolation Pilot Plant (WIPP) current schedules demand that retrievable stored TRU waste be processed and shipped by the end of calendar year (CY) 2018. The WRAP construction and operation schedules are keyed towards that processing rate.

ACTIVITY BY PRIORITY:

All activities are DOE-HQ Priority 2 and RL Priority B1.

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

None.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:  
No direct funding in FY 1994.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:  
No direct funding in FY 1995.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

The planning case funding for FY 1996 provides for the completion of the Functional Design Criteria (FDC) and the Hazards Classification document. Work involved with the Engineering Safety Study will be initiated.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
2250-00-0025	Complete Phase 2 Retrieval FDC	9/30/95	9/30/00

## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

In the planning case, the conceptual design report, advanced conceptual design report, and Title I design will be completed during the five year period. Title II design will be initiated. Design will utilize experience from design of the Phase I Retrieval Facility. Phase II retrieval will provide greater containment of the retrieval area. The Preliminary Safety Evaluation (PSE) will be completed, and work on the Preliminary Safety Analysis Report (PSAR) will be initiated. Efforts required for NEPA documentation and facility air permitting will be initiated. Procurement of NDE/NDA Equipment Spares will occur late in the five year period.

## DRIVERS AND IMPACTS INFORMATION

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### REGULATORY DRIVERS:

The degradation of these waste containers will continue to occur if they are not removed. The existence of DOE Order (5820.2A) and HDW-EIS ROD requires removal of the waste from storage trenches. The waste packages outer structural containment being continually exposed to an environment will cause eventual structural failure, either from internal corrosion or from the external environment in the storage trench, or both. Delaying the retrieval of waste from these conditions, can cause additional retrieval costs (breached container retrieval will cost a large factor higher than retrieval of intact waste packages). Also to be considered is the environmental impact of releasing radioactive and hazardous material to the biosphere. WRAP will be designed and constructed to process the waste for eventual disposal in local sites (LLW or LLMW) or at WIPP (TRU). WRAP processing schedules are keyed toward obtaining feedstocks at a rate that matches the WIPP delivery requirements (complete shipments by CY 2018), concurrence with minimizing the facility costs that are processing rate dependent. If retrieval is delayed, the processing rate through WRAP will be significantly slowed with acceleration beyond the design basis when retrieval starts.

The HDW-EIS and Record of Decision (ROD) commits the U.S. Department of Energy to retrieval of TRU waste.

### Applicable Regulations Include:

WAC 173-303-645(1) and (1-2) - Releases from Solid Waste Management Units  
WAC 173-303-283 - Performance standards, which prohibits degradation of groundwater or releases to the environment. Breached drums could cause violation

DOE Order 5820.2A - (Radioactive waste management)  
DOE Order 5840.19 - Conduct of operations  
DOE Order 6430.1A - Design criteria

### REGULATORY KEY ISSUES:

Waste has been retrievable stored in 25 trenches since 1970. Some waste packaging began approaching their 20 year design life in 1990 and will exceed the design life by 10 to 19 years by the time retrieval operations are initiated in 2003 and completed in 2018. The consequence of further delaying retrieval operations could result in containers being stored for 48 years (i.e., 28 years beyond design life). Some of the containers are projected to be breached, which adds complications to the retrieval activities in terms of ALARA, waste retrieval facility design, environmental impacts, increased waste volumes, and retrieval costs.

Operations in all the trenches can best be accomplished via a phased approach in which Project W-113, 'Phase 1 Retrieval' (ADS 2200-2), addresses the waste in a single trench that is expected to be essentially structurally intact and contamination free, with Phase 2 addressing the balance of intact waste as well as more complex and technically challenging

waste. It is anticipated that for at least some of the volume, the waste will be housed in structurally failed packages with the potential release of contamination.

COMP/PROG BENEFITS AT PLANNING LEVEL:

Operation of this facility will remain in phase with WRAP 1, WRAP 2A, WRAP 2B, and Phase I retrieval operations to support the WIPP schedule.

CONCERNS AT PLANNING LEVEL:

Should retrieval facility funding be delayed, additional degradation of waste packages will occur, causing incremental increase in release of hazardous and radioactive materials as well as a significant increase in retrieval costs (in fixed dollars). The latter is caused by the extra expense associated with retrieval of waste that is degraded, has additional problems with handling of the degraded packages and its contents, as well as the contaminated earth surrounding the waste packages. Additionally, ALARA principles encourage early retrieval since additional exposure of staff can be expected when retrieving waste with breached containers. Finally, delaying the facility will most likely result in administrative and legal problems related to DOE Orders, EIS, and Tri-Party Agreements. Lengthy delays may result in the need to do a supplemental EIS.

REQUIRED TECHNICAL DEVELOPMENT:

No technology development is required. Application of certain technology to waste retrieval will need to be demonstrated.

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2250 ADS SUF: 0 SUBACTIVITY: AC

SUBACTIVITY TITLE: W-318 PHASE 6 STORAGE

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0	345		345	188	93	136	565
CE 35EW31302	0	0	0		0	0	0	0	393
LI 39EW31302	0	0	0		0	0	0	1540	13070
TOTAL	0	0	345	0	345	188	93	1677	14027
DIRECT FTE	0	0	2	0	2	1	1	3	4

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The Central Waste Complex (CWC) provides permitted Resource Conservation and Recover Act (RCRA) compliant mixed waste storage for the Hanford Site. The facility has interim status and the draft Part B Permit has been submitted to the regulators for approval. The CWC will have the capacity for storage of 75,000 drums of mixed waste with the completion of Phase V Sotrage in 1998. The CWC facility also has the infrastructure and equipment necessary for the receipt and storage of mixed waste.

The projected solid waste inventory, which is based upon forecasts from on-site and off-site Hanford waste generators, shows that storage capacity in the Solid Waste Operations Complex (SWOC) will be exceeded beginning in CY 2002. By the year 2006, when the Thermal Treatment Facility becomes operational, storage capacity is projected to be 30% short of requirements.

The Phase I through IV storage facilities in the CWC were designed and constructed with a modular concept. This activity proposes utilizing the same design and concept to enhance total storage capacity in the SWOC. Overall storage capacity would be increased to 115,000 drums equivalents of mixed waste.

The new storage modules would be located adjacent to the current RCRA compliant mixed waste storage facilities.

## RELATED ACTIVITIES NARRATIVE:

Activity Data Sheet 2200-00-AB, Central Waste Complex Operations.

## KEY ASSUMPTIONS:

The Waste Isolation Pilot Plant will begin receiving TRU waste from Hanford for disposal in CY 2002. WRAP 1 will begin operation in 1997; WRAP 2A will begin operation in 1999; and WRAP 2B will begin operation in 2004. Phase V storage will begin operations in 1998.

## ACTIVITY BY PRIORITY:

All activities are DOE-HQ Priority 2 and RL Priority B1.

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CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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## TASKS COMPLETED TO DATE:

None.

ADS ID: 2250

ADS SUF: 0

SUB ACT: AC

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## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:  
No direct funding identified for FY 1994.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:  
No direct funding identified for FY 1995.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:  
No direct funding identified for FY 1996.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

In the planning case, an engineering study will be completed to establish bases for the facility. During the planning window and beyond, the Hazard Classification Documentation for the CWC will be reviewed and updating initiated. Functional Design Criteria will be established and the Conceptual Design Report completed. During the planning window and beyond, hazard classification updates will be complete and updating of the existing CWC Safety Analysis Report will get underway. National Environmental Policy Act (NEPA) documentation will be developed, and the Part B Permit Application will be revised. Detailed design will also be initiated. Operation of the storage facility is scheduled for CY 2002.



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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Project activities are required to achieve and maintain compliance with State and Federal regulations for the storage of low-level RMW and TRU-RMW.

## Applicable Regulations Include:

40CFR 191.03(b) - Radioactive waste storage  
40CFR 61.92 - Control of radionuclide air emissions 40CFR 264.14 -  
Security of a TSD facility  
40CFR 264.17 - Requirements for ignitable, reactive or incompatible waste  
40CFR 264.175(a-b) - Containment  
40CFR 264-176 - Special requirements for ignitable or reactive wastes 40CFR  
264-177(c) - Special requirements for incompatible wastes 40CFR 268.7(a) -  
Certification of LDR requirements  
40CFR 268.9(a) - Need waste code  
40CFR 268.3(j)(1-2) - Need test for corrosive and halogens  
40CFR 761.65(2-4) - Storage for disposal - PCBs  
40CFR 761.180 - Records and reports - PCBs

WAC 173-303-141 - Receive only designated wastes  
WAC 173-303-283(3) - Performance standards  
WAC 173-303-300 - Waste analysis  
WAC 173-303-310(2) - Security  
WAC 173-303-320 - Security  
WAC 173-303-330 - Inspections  
WAC 173-303-340 - Preparedness  
WAC 173-303-350 - Contingencies  
WAC 173-303-355 - SARA III  
WAC 173-303-370 - Manifests  
WAC 173-303-380 - Record Keeping  
WAC 173-303-390 - Reporting  
WAC 173-303-395(1,2,4) - Other general requirements  
WAC 173-303-400 - Interim status standards  
WAC 173-303-630(2,5,7,8,9) - Use and management of containers

55FR 22669-22670 - Periodic verification analysis

DOE Order 5400.3 - Mixed waste program  
DOE Order 5480.19 - Conduct of Operations  
DOE Order 5820.2A - Radioactive Waste Management

## REGULATORY KEY ISSUES:

The availability of the WIPP site to receive TRU wastes remains an issue. If WIPP is not available, Hanford will need to construct additional RCRA compliant storage space.

Waste generation continues to exceed the storage capability and additional storage buildings will be required to achieve compliance with RCRA and WAC storage requirements. The storage facility will provide the required radiological and hazardous waste containment which is appropriate for the

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waste inventories to be stored. These facilities would be part of the Hanford Central Waste Complex, a series of treatment, storage, and disposal facilities to be located in the 200 West Area of the Hanford Site. This storage facility is an integral part of the waste management complex required to support implementation of required treatment and disposal practices for low-level RMW and TRU waste, including support to the WRAP facilities.

COMP/PROG BENEFITS AT PLANNING LEVEL:

Operation of this facility will allow the Hanford Site to remain in compliance with mixed waste storage.

CONCERNS AT PLANNING LEVEL:

Availability of the WIPP for disposal of TRU waste is a concern. Without WIPP, additional Hanford Storage may be required.

REQUIRED TECHNICAL DEVELOPMENT:

No technology development is required.

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2250 ADS SUF: 0 SUBACTIVITY: AD

SUBACTIVITY TITLE: W-156 CAISSON RETRIEVAL

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0		125	125	1267	1354	1678	887
LI 39EW31302	0	0		0	0	0	0	0	2947
TOTAL	0	0	0	125	125	1267	1354	1678	3834
DIRECT FTE	0	0	0	1	1	3	3	7	11

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The Caissons Retrieval Facility (Project W-156) is planned to retrieve Remote-Handled Transuranic (RH-TRU) waste from the Alpha Caissons. A total of 5,485 waste containers have been placed in the four Alpha Caissons. Approximately 97% of the waste containers stored in the four Alpha Caissons are one-gallon pails weighing 5-10 pounds. Pails in one caisson have dose rates up to 8,000 R/hr. Early HEPA filter contamination which occurred during waste pail discharge indicates that some containers are breached. This facility will provide a shielded hot cell with remote Hanford equipment for retrieval and waste packaging for shipment to the Waste Receiving and Processing (WRAP) Facility. This facility must be portable to retrieve RH-TRU from four separate caisson locations.

## RELATED ACTIVITIES NARRATIVE:

Activity Data Sheet (ADS) 2200-02 on Phase 1 contact-handled TRU waste retrieval, ADS 2250-00-AB on Phase 2 retrieval, and ADS 2250-00-AA on WRAP Module 2B.

## KEY ASSUMPTIONS:

WRAP Module 2B or other RH-TRU treatment capability will be available to receive RH-TRU waste from retrieval.

## ACTIVITY BY PRIORITY:

All activities are DOE-HQ Priority 2 and RL Priority B1.

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CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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## TASKS COMPLETED TO DATE:

SD-WM-ROB, "Retrieval of Waste From Alpha Caisson" was completed October 1985, which assessed remote retrieval of caissons, preliminary design, costs, and scheduling.

WHC-SD-WM-RPT-008, "Alpha Caissons Data and Evaluation" was completed December 1990. It evaluated the forms of data collected over the years concerning the alpha caissons.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:  
No direct funding identified for FY 1994.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:  
No direct funding identified for FY 1995.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:  
In the planning case, an engineering study will be completed to establish bases for performing the alpha caisson retrieval.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:  
During the planning window and beyond, the Hazard Classification Documentation will be prepared. The engineering safety study will be prepared to provide basis for the preliminary safety evaluation (PSE) effort. The PSE work will be completed. Functional design criteria (FDC) will be developed and the conceptual design report (CDR) will be prepared. National Environmental Policy Act documentation preparation will be initiated. The advanced conceptual design work will be completed and definitive design will begin at the end of the five-year period.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

The alpha caisson contain mixed waste; therefore, they are regulated as RCRA facilities. These caissons do not comply with the requirements for storage or disposal, hence action is needed to achieve compliance with state and federal regulations. The HDW-EIS Record of Decision also specifies the wastes from the alpha caissons are to be retrieved and processed at the WRAP facility.

## Applicable Regulations Include:

40CFR 264 Subpart B - General Facility Standards  
40CFR 264 Subpart C - Preparedness and prevention  
40CFR 264-111 - Closure performance standards  
40CFR 264-113(a-b) - Time allowed for closure  
40CFR 268 Subpart D - Treatment standards for land disposal restricted waste  
40CFR 191-03(b) - Environmental standards for management and storage of spent nuclear fuel, high-level, and TRU waste  
40CFR 191-13-14 - Environmental standards for disposal and storage of spent nuclear fuel, high-level, and TRU waste  
WAC 173-303-283 - Performance standards for hazardous waste facilities  
WAC 173-303-340 - Preparedness and preventions  
WAC 173-303-610(2) - Closure performance standards  
WAC 173-303-610(4) - Time allowed for closure  
WAC 173-303-140(4) - Land disposal restrictions and treatment requirements for waste  
WAC 173-303-645 - Release from solid waste management units  
DOE Order 5820.2A - Radioactive waste management

## REGULATORY KEY ISSUES:

Development of a container and SARP for waste transport is an issue. Container integrity in the caissons is questionable.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

Operation of this facility will match up with the WRAP 2B and WIPP schedules.

## CONCERNS AT PLANNING LEVEL:

The remote handled TRU waste will not be ready for shipment to WIPP to meet the WIPP operation loading plan.

## REQUIRED TECHNICAL DEVELOPMENT:

Robotic retrieval capability will need to be demonstrated.

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OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2250 ADS SUF: 0 SUBACTIVITY: AE

SUBACTIVITY TITLE: W-174 ADVANCED DISPOSAL

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

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LINE ITEM NO: TPC: TEC:

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0	125		125	1020	1368	1418	534
CE 35EW31302	0	0	0		0	0	0	524	524
LI 39EW31302	0	0	0		0	0	0	0	1470
TOTAL	0	0	125	0	125	1020	1368	1942	2528
DIRECT FTE	0	0	1	0	1	5	3	5	6

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

Radioactive waste has been managed at the Hanford Site since the early 1940s. Initially, Low-Level Waste (LLW) was disposed of by shallow land burial, near where it was generated. By 1972, all LLW were disposed of on the Hanford plateau in trenches designed as below-grade retrievable storage. In the future, more stringent regulations or performance assessment (PA) analysis may require additional confinement necessary for LLW disposal practices.

Radioactive waste is managed at the Hanford Site in accordance with applicable federal and state regulations, in particular U.S. Department of Energy (DOE) orders. DOE-RL Order 5820.2A (DOE 1990) is the principal order affecting solid radioactive wastes.

Currently LLW disposed of at the Hanford Site consists of Category 1 and Category 3 waste. The LLW is placed in below grade trenches and backfilled with soil.

The Nuclear Regulatory Commission (NRC) has defined radioactive waste classes A, B, and C, as found in 10CFR 61.55. Class A and B waste are both categorized such that after 100 years of storage they pose an 'acceptable hazard' to an inadvertent intruder. Class C waste is designated such that after 500 years the potential hazard to an inadvertent intruder is at an 'acceptable' level.

Westinghouse Hanford Company (WHC) initially defined its own radioactive waste classifications of Category 1, Category 2, and Category 3 waste. These classifications correspond respectively to the NRC A, B, and C classifications. The basis for creating the different classification system is that defense waste is composed of a different composition than commercial nuclear industry waste. Currently, the WHC waste classification system has only two waste classifications consisting of Category 1 and Category 3 waste. Definition of Category 1 and Category 3 waste is done using the concept that after 100 years intrusion is acceptable in Category 1 waste, while 500 years must pass before intrusion is acceptable in Category 3 waste. In the Hanford Site 1990 waste volume projects, Category 2 and Category 3 were grouped together as Category 3. The classification definition is found in WHC-EP-0063.

Current disposal practices are expected to be adequate for Category 1 LLW based on initial performance assessment analysis. However, current disposal practices for Category 3 LLW requires greater confinement on a case-by-case basis.

The recommended alternative for a new LLW-Category 3 permanent disposal facility uses lined trenches in which any size or shape object can be placed and then surrounded with grout. The surrounding grout matrix limits the mobility of radionuclides and gives structural stability which prevents future settlement. The trench lining (possibly clay) reduces water and oxygen movement creating an anaerobic environment within the disposal facility. A cap to prevent water root intrusion is also provided. The whole site will be monumented with markers designed to last 10,000 years.

## RELATED ACTIVITIES NARRATIVE:

The W-174 Advanced Disposal Facility will accept waste forms from the upgraded TRUSAF Facility (ADS 2200-00-AH).

## KEY ASSUMPTIONS:

LLW will continue to be disposed on the Hanford Site. Waste received at the disposal facility will be received in a form suitable for disposal without a need for processing or packaging.

## ACTIVITY BY PRIORITY:

All activities are DOE-HQ Priority 2 and RL Priority B1.

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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## TASKS COMPLETED TO DATE:

Draft Engineering study: WHC-SD-W174-ES-001, Rev. 0.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:  
No direct funding identified in FY 1994

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:  
No direct funding identified in FY 1995

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:  
The planning case funding will support review and revision of the engineering study and development of hazard classification.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:  
The planning case supports Functional Design Criteria (FDC) development and completion of the Conceptual Design Report (CDR). The preliminary safety evaluation will be completed and revision of the Burial Ground Safety Analysis Report initiated. National Environmental Policy Act (NEPA) documentation will be started and a revision to the Low-Level Burial Ground Part B Permit will be submitted. Definitive design will be initiated.

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## DRIVERS AND IMPACTS INFORMATION

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### REGULATORY DRIVERS:

Applicable Regulations Include:

DOE Order 5480.19 - Conduct of operations

DOE Order 5820.2A - Radioactive waste management

### REGULATORY KEY ISSUES:

PA analysis is needed to determine compliance requirements for disposal.

### COMP/PROG BENEFITS AT PLANNING LEVEL:

Completion of this facility will allow compliant disposal of low level Category 3 waste.

### CONCERNS AT PLANNING LEVEL:

Funding of this activity is required to meet the needs of anticipated future Category 3 LLW disposal requirements. If this activity is unfunded, then Solid Waste Programs is at risk in regards to future regulator imposed requirements for disposal of Category 3 LLW.

### REQUIRED TECHNICAL DEVELOPMENT:

No technology development is required.

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TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2250 ADS SUF: 0 SUBACTIVITY: AF

SUBACTIVITY TITLE: W-247 LLW HANDLING FACILITY

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0	250		250	1915	2960	2227	2080
CE 35EW31302	0	0	0		0	0	0	0	655
LI 39EW31302	0	0	0		0	0	0	0	3592
TOTAL	0	0	250	0	250	1915	2960	2227	6327
DIRECT FTE	0	0	2	0	2	4	5	8	20

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

Solid Low-Level Waste (LLW) at Hanford consists of assorted materials generated during various work activities within radiation zones. These materials are placed into containers and sent to the Low-Level Burial Grounds (LLBG) for permanent disposal. There is little or no effort to distinguish what is contaminated from what is not, or other attempts made to reduce the volume of waste generated prior to disposal. This activity is not included in other ongoing activities such as the Waste Receiving and Processing (WRAP) facility.

This activity provides the funding to establish facilities and equipment for volume reduction and reclamation of solid LLW for the entire Hanford Site. The specific activities to be performed in the facility/facilities are as follows:

- \* Non-Destructive Assay: All waste will be assayed prior to processing for proper identification of radionuclides.
- \* Non-Destructive Exam: Waste will go through X-Ray for identification of physical contents. This is necessary to determine if the waste should be considered for volume reduction and will identify if liquids are present prior to opening the container.
- \* Assay Sorting: Waste will be sorted into contaminated versus non-contaminated waste streams, reducing the contaminated amount by over fifty percent.
- \* Physical Sorting: Waste will be physically sorted to remove unwanted and recyclable items such as hazardous waste items or equipment that can be reused again (Example: gloves and respirators).
- \* Decontamination: A portion of the facility will be designated to decontaminate items if needed prior to release for reuse.
- \* Recycling: Waste items that have been removed will be assayed for final release and sent back to the generator for reuse. Materials such as metal, wood, plastic, etc., may be sent to off-site reclamation services.
- \* Super Compacting: Following the identification and removal of unwanted items and recyclables, waste identified as contaminated and non-reusable will be compacted to further reduce the overall volume.

The waste reduction facility will provide Hanford with a potential cost savings and provide enhanced environmental assurance as clean-up operations continue into the future.

## RELATED ACTIVITIES NARRATIVE:

This activity is related to the 213-W Compactor (ADS 2200-x-xx), the WRAP Module 1 Facility (ADS 2220-1), the WRAP Module 2A Facility (ADS 2230-1),



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and the WRAP Module 2B Facility (ADS 2250-0-AA).

KEY ASSUMPTIONS:

This facility will be integrated into the overall site-wide solid waste handling strategy.

ACTIVITY BY PRIORITY:

All activities are DOE-HQ Priority 2 and RL Priority B1.

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

None.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:  
No direct funding identified in FY 1994.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:  
No direct funding identified in FY 1995.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:  
An engineering study will be completed to determine the feasibility and best option for waste volume reduction. The hazard classification documentation will be completed and an Engineering Safety Study initiated.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:  
After the best option is selected from the engineering study, the Functional Design Criteria and Conceptual Design Report will be completed. Advanced conceptual design will be completed and the required NEPA documentation developed. The Part B and Air Permit activities will begin. The Preliminary Safety Analysis Report (PSAR) will be initiated.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Project W-247, 'LLW Handling Facility', is needed to process waste for disposal in order to minimize volume and reduce the potential for subsidence, in accordance with provision of Resource Conservation and Recovery Act (RCRA) and State Dangerous Waste Regulations. DOE Order 5820.2A, Chapter 3, requires technical and administrative control to reduce the gross volume of waste for disposal.

## Applicable Regulations Include:

40CFR 61-92 - Rad air emission

40CFR 264-315(a-b) - 90% full or volume reductions

WAC 173-303-400(3) - Standard from interim status

DOE Order 5820.2A - Radioactive waste management

## REGULATORY KEY ISSUES:

Current site prioritized funding levels do not include funding for DOE Order compliance in the area of waste volume reduction. This activity would reduce the overall volume of LLW disposed at Hanford. Compaction of waste removes or eliminates void space in the waste. Compacted waste eliminates subsidence problems in the burial grounds. This will reduce future closure costs.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

The activity will provide a substantial effort in overall Hanford site waste volume reduction.

## CONCERNS AT PLANNING LEVEL:

No target funding has been identified. Sorting and compaction of waste reduces the overall volume of LLW disposed. Without this activity, programmatic impacts include the need for additional burial ground capacity. This activity assumes that near-term compliance with DOE Orders on waste volume reduction is not obtained.

## REQUIRED TECHNICAL DEVELOPMENT:

No technology development is required.

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TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2250 ADS SUF: 0 SUBACTIVITY: AG

SUBACTIVITY TITLE: W-242 THERMAL TREATMENT

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0	2358		2358	3602	4593	3825	2534
CE 35EW31302	0	0	0		0	0	1048	1048	1048
LI 39EW31302	0	0	0		0	0	0	21866	36509
TOTAL	0	0	2358	0	2358	3602	5641	26738	40090
DIRECT FTE	0	0	7	0	7	10	14	32	34

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The purpose of this activity is to provide thermal treatment as prescribed in 40CFR 268, for radioactive Resource Conservation and Recovery Act (RCRA) and Toxic Substance Control Act (TSCA) solid wastes. The Thermal Treatment Facility will be designed and constructed. The engineering study recommends a rotary kiln incinerator and a plasma arc furnace for the waste streams identified for the facility. The facility will be located in near proximity of the Central Waste Complex (CWC) and the Waste Receiving and Processing (WRAP) Facility.

Ash from thermal treatment of low-level waste will be stabilized and disposed of in the Low-Level Waste Burial Grounds. The treatment facility is required for destruction of alpha-contaminated polychlorinated biphenyls (PCBs) currently in storage at the Hanford Site. In addition, a significant quantity of radioactive mixed waste (RMW) contains F-Coded organics having concentration-based treatment standards for which incineration is the Best Demonstrated Available Technology (BDAT). Ash from thermal treatment of transuranic (TRU) wastes will be stabilized and disposed of at the Waste Isolation Pilot Plant (WIPP) site.

## RELATED ACTIVITIES NARRATIVE:

Alternative activities to thermally treating RMW have emphasized privatization or treatment by a commercial entity (ADS 2200-0-AW) or transporting the wastes to an incinerator at one of the other U. S. Department of Energy (DOE) sites (ADS 2200-0-AG).

Treatment of all of the RMW requiring thermal treatment may not be possible either by a private company or by another DOE site. Based on present assessments of these alternative activities, both may prove to have technical and regulatory limitations. Existing thermal treatment technologies are not designed to burn alpha-contaminated wastes. Transport of the RMW offsite may be subject to prohibitive regulatory requirements.

## KEY ASSUMPTIONS:

This activity was considered to have a low confidence level because it is in the preliminary planning phase. However, the costs are based on the costs of commercially available thermal treatment technologies and processes. The preliminary cost estimate is based on a plasma arc furnace, off-gas treatment equipment, process control and monitoring devices, and structural containment and isolation.

## ACTIVITY BY PRIORITY:

All activities are DOE-HQ Priority 2 and RL Priority B1.

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CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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## TASKS COMPLETED TO DATE:

Draft Engineering Study: WHC-SD-W242-ES-001, 'Hanford Site-Specific Engineering Study for W-242 Thermal Treatment Facility'

Engineering Study: WHC-SD-W242-ES-002, 'W-242 Thermal Treatment Facility Technical Basis Document'

Engineering Study: WHC-SD-WM-ES-198, 'Assessment of High Temperature Thermal Treatment Alternatives for Inclusion Into the Scope of the Hanford Waste Receiving and Processing Facility'

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

No target case funding is provided for FY 1994.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

No target case funding is provided for FY 1994

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
-----			

## PLANNING YEAR (FY 1996) TASK NARRATIVE:

The planning case funding for FY 1996 provides for the completion of a final engineering study, functional design criteria, and an engineering safety study, and supports NEPA documentation preparation. Procedures associated with the Part B permit application are also initiated. FY 1996 funding is contingent on the decision that privatized thermal treatment (ADS 2200-0-AW) proves to be unfeasible.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

The planning case funding for FY 1997 provides for the completion of a CDR and PSE. The Part B Permit Application will be submitted. NEPA and permitting efforts will continue.

The planning case funding for FY 1998 provides for the initiation of an Advanced CDR (ACDR) and the Preliminary Safety Analysis Report (PSAR). Activities are also initiated to resolve the Part B Permit Notice of Deficiency. NEPA/SEPA documentation will be initiated. Applications for air permits and effluent discharge permits will be submitted. An application for a permit to treat and dispose PCB wastes under TSCA will also be submitted.

The planning case funding for FY 1999 provides for the completion the ACDR and the initiation of a preliminary design. Work on the PSAR will



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continue. Part B Permit, NEPA/SEPA, air permit, effluent discharge permit, and PCB treat/dispose permit activities will also continue.

The planning case funding for FY 2000 provides for the completion of a preliminary design. Work on the PSAR will continue. Part B Permit, NEPA/SEPA, air permit, effluent discharge permit, and PCB treat/dispose permit activities will also continue.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Federal and state regulations mandate that PCB wastes and certain hazardous wastes, including several mixed wastes, be treated by a high temperature thermal treatment process. Hanford Site RMW includes significant quantities of alpha-contaminated polychlorinated biphenyls (PCBs) as well as significant quantities of RMW containing F-Coded organics having concentration-based treatment standards for which incineration is the best demonstrated available technology (BDAT). These regulations also prohibit storage of such restricted waste beyond one year. FY 1994 activities are emphasizing the privatization of thermal treatment for the destruction of these wastes. A decision regarding the feasibility of privatization of thermal treatment will be issued during FY 1994. If privatization of thermal treatment proves to not be feasible, the subject thermal treatment facility will be required for the treatment of these wastes. Failure to demonstrate that effort to implement required thermal destruction technology is being pursued could result in enforcement action against the Hanford Site.

## Applicable Regulations Include:

40CFR 761-60 - PCB waste disposal requirements  
40CFR 761-70 - Standards for PCB waste incineration  
40CFR 761-65 - Limits on PCB waste storage  
40CFR 268-42(a)(1-2) - Thermal treatment requirements for land disposal restricted waste  
40CFR 268-50 Subpart E - Prohibition on storage of land disposal restricted waste  
WAC 173-303-140(4)(e)(i) - Incineration requirements for organic/carbonaceous wastes

DOE Order 5820.2A - Radioactive Waste Management

## REGULATORY KEY ISSUES:

Privatization of this activity may be possible (ADS 2200-0-AW).

## COMP/PROG BENEFITS AT PLANNING LEVEL:

This activity allows for completion of the facility to support the Waste Isolation Pilot Plant schedule for disposal of TRU waste.

## CONCERNS AT PLANNING LEVEL:

This activity will provide treatment capability necessary to avoid non-compliance with RCRA and TSCA regulations. It will improve activities identified in the Tiger Team Assessment. Privatization of thermal treatment may prove feasible. Assessment activities conclude that shipping waste to another DOE site for thermal treatment will have very limited success from a regulatory and waste acceptance perspective. Without thermal

treatment capability, the Hanford Site could be fined by the EPA or the State of Washington for RCRA and TSCA violations. Long-term storage of waste will increase the potential for adverse safety and environmental impacts.

REQUIRED TECHNICAL DEVELOPMENT:

No technology development is required, however existing technology will need to be demonstrated for the incineration of alpha-contaminated PCBs. Remote operations and maintenance technology will also have to be demonstrated.

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TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2250 ADS SUF: 0 SUBACTIVITY: AH

SUBACTIVITY TITLE: W-319 TRUSAF UPGRADES/EXTENSION

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R									
OE EW3130020	0	0		0	0	2531	2172	6260	9746
TOTAL	0	0	0	0	0	2531	2172	6260	9746
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R									
OE EW3130020	0	0		1555	1555	3197	2491	2672	1368
CE 35EW31302	0	0		0	0	0	0	1310	1310
LI 39EW31302	0	0		0	0	0	0	6285	8671
TOTAL	0	0	0	1555	1555	3197	2491	10267	11348
DIRECT FTE	0	0	0	7	7	7	6	24	25

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The TRUSAF Building, constructed in 1944, consists of a shutdown process canyon and the Resource Conservation and Recovery Act (RCRA) permitted Transuranic (TRU) waste storage facility. Approximately 1/2 the building is currently in use for certified TRU waste storage. All building utility systems and the canyon cell are in need of upgrade. The canyon cell has been the cause of recent contamination control incidents. The building HVAC needs repair to bring the system in-line with the plants current mission.

## RELATED ACTIVITIES NARRATIVE:

This activity is related to TRUSAF Operations and TRUSAF Maintenance (ADS 2200-0-AL).

## KEY ASSUMPTIONS:

This activity assumes the Waste Isolation Pilot Plant (WIPP) site continues to be delayed requiring long-term storage of TRU waste at the Hanford Site.

## ACTIVITY BY PRIORITY:

All activities are DOE-HQ Priority 1 and RL Priority A2.

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CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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## TASKS COMPLETED TO DATE:

None.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:  
No direct funding was identified in FY 1994.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:  
No direct funding was identified in FY 1995.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

In the planning case, functional design criteria will be developed, the hazard classification will be determined, and an engineering safety study initiated. The conceptual design will begin.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
2250-00-0010	COMPLETE CDR FOR TRUSAF EXPANSION	3/30/97	3/30/98

## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

In the planning case, required NEPA documentation will be completed and the preliminary design activities will be completed, allowing start of the detailed design. The preliminary safety analysis report will be initiated.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

TRUSAF life extension is primarily a safety issue. The TRUSAF facility must comply with the terms of the RCRA/State Part B Permit Application.

## Applicable Regulations Include:

40CFR 264, Subpart B - (General facility standards)  
40CFR 264, Subpart I - (Use and management of containers)

WAC 173-303-280 - 400 - (Requirements for managing waste)  
WAC 173-303-340(1) - (Required emergency equipment)  
WAC 173-303-395(1) - (Requirements for reactive wastes)  
WAC 173-303-630(7) - (Containment systems for containers)  
WAC 173-303-630(8) - (Requirements for container storage of radioactive waste)

DOE Order 5820.2A - (Radioactive waste management)

## REGULATORY KEY ISSUES:

This activity assumes the WIPP site continues to be delayed. A delay in the WIPP site continues to burden the Hanford waste storage needs.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

This activity will provide compliant TRU waste storage to support projected TRU waste receipts.

## CONCERNS AT PLANNING LEVEL:

Continued delay of the WIPP site will lead to the need to continue expansion of Hanford TRU Storage capability. Storage capacity of TRU wastes in the near term is not sufficient with delays to WIPP operation. Lack of funding to this activity will result in storage capacity deficiencies for TRU waste, and may result in future fines to be imposed by the regulators in the event that RCRA compliant storage is not available.

## REQUIRED TECHNICAL DEVELOPMENT:

No technology development is required.



OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2250 ADS SUF: 0 SUBACTIVITY: AI

SUBACTIVITY TITLE: W-329 LOW LEVEL BURIAL GROUND CLOSURE

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	0	0	1028		1028	1860	1435	996	0
CE 35EW31302	0	0	0		0	0	0	982	982
LI 39EW31302	0	0	0		0	0	0	3484	12484
TOTAL	0	0	1028	0	1028	1860	1435	5463	13466
DIRECT FTE	0	0	4	0	4	7	8	12	5

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

Federal and State environmental regulations require that a final cover be placed over hazardous waste landfills after they are filled. This activity initiates construction work necessary to support the Low-Level Burial Ground (LLBG) closures identified in Chapter 11 of the LLBG Waste Permit Applications. The LLBG has been grouped into five Low-Level Waste Management Areas (LLWMA) for final closure as follows:

- 1) LLWMA - 1 Burial Ground 218-E-10
- 2) LLWMA - 2 Burial Ground 218-E-12B
- 3) LLWMA - 3 Burial Grounds 218-W-3A, 218-W-3AE, and 219-W-5
- 4) LLWMA - 4 Burial Grounds 218-W-4B and 218-W-4C
- 5) LLWMA - 5 Burial Ground 218-W-6

Closure of the LLBG will entail placement of an impermeable cover material and groundwater monitoring systems to satisfy performance criteria specified in WAC 173-303-610 and DOE Order 5820.2A. This activity is the Line Item project work needed to move or remove roads, rails, and/or utilities that are affected by the closure activity.

## RELATED ACTIVITIES NARRATIVE:

This activity is related to the Solid Waste Burial Ground Closure (ADS 2200-0-AE).

## KEY ASSUMPTIONS:

The costs are based on an engineering report prepared by Golder and Associates. The uncertainty in the cost estimates for the major activities is variable. The costs of constructing the Resource Conservation and Recovery Act (RCRA) compliant covers have the lowest degree of certainty and are the single most significant element of the work. The construction costs have a greater level of refinement and are better defined. Closure schedules must be renegotiated with the regulators.

## ACTIVITY BY PRIORITY:

All activities are DOE-HQ Priority 2 and RL Priority B1.

## CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

## TASKS COMPLETED TO DATE:

Completed engineering report with preliminary cost estimated for LLBG closure. This report only assumes the construction of covers which satisfy

the State and Federal environmental requirements and not the DOE requirements for prevention of intrusion. Completed conceptual closure layout and schedule in December 1989. The current Part B Permit contains a closure schedule submitted to the regulators. As of this date, the environmental regulators have expressed that the proposed closure schedule be accelerated.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

No direct funding identified for FY 1994.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

Activities are included in ADS 2200-00-AE.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

In the planning case, initiation of the Functional Design Criteria (FDC), the Preliminary Safety Evaluation (PSE), and Conceptual Design Report (CDR) will be accomplished.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

In the planning case, the FDC, PSE, CDR, and other design activities will be completed. A safety analysis report and required NEPA documentation will be accomplished. Modification of the Part B Permit will be undertaken.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

The LLBG Part B contains a closure schedule for closure of burial grounds. Current closure plan assumes FY 1995 for start of the first closure.

## Applicable Regulations Include:

- 40CFR 264.110-120 - (Closure and post closure requirements)
- 40CFR 191.13 - (Containment requirements for TRU waste disposal units)
- 40CFR 191.14 - (Assurance requirements)
- 40CFR 191.16 - (Groundwater protection requirements)
- WAC 303-610(2) - (Closure performance standards)
- WAC 303-610(4) - (Time allowed for closure [180 days after receiving last load in unit])
- WAC 173-303-645(1) and (12) - (Releases from SMUs)
- WAC 173-303-283 - (Performance standards), which prohibit degradation of groundwater or releases to the environment. Breached drums would cause violation.
- WAC 173-303-830(3ai) - Permit/closure plan alterations
- DOE Order 5820.2A - (Radioactive waste management)

## REGULATORY KEY ISSUES:

Institutional control and the future mission of the Hanford site remain an issue. Due to the closure proximity of facilities in the 200 Areas, utilization of land for facilities such as the Waste Receiving and Processing (WRAP) facility and the Hanford Waste Vittrification Plant (HWVP) will impact the current closure schedule. The closure schedule will need to be re-negotiated.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

The planning level, although insufficient to accomplish the current LLBG Part B Closure scheduled, provides a reasonable basis for re-negotiation of the closure.

## CONCERNS AT PLANNING LEVEL:

The planning level still requires re-negotiation of the LLBG closure schedule with the EPA and Ecology.

## REQUIRED TECHNICAL DEVELOPMENT:

No technology development is required.



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OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2250 ADS SUF: 0 SUBACTIVITY: AJ

SUBACTIVITY TITLE: MIXED WASTE DISPOSAL TRENCH/WRAP 2A

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: RICHLAND SOLID/LIQ WASTE & DEC-NFP

DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3130020	0	0	0			0	0	2469	2170
TOTAL	0	0	0	0	0	0	0	2469	2170
DIRECT FTE	0	0	0	0	0	0	0	5	5

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3130020	0	0	0			0	0	2743	2411
TOTAL	0	0	0	0	0	0	0	2743	2411
DIRECT FTE	0	0	0	0	0	0	0	5	5

SCOPE INFORMATION  
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## TECHNICAL SCOPE NARRATIVE:

The mixed waste disposal trench will provide RCRA compliant disposal for mixed wastes to support disposal of waste from the mixed waste treatment process.

## RELATED ACTIVITIES NARRATIVE:

This activity is related to.

## KEY ASSUMPTIONS:

Failure to proceed with mixed waste disposal trench provides no RCRA compliant mixed waste disposal capabilities.

## ACTIVITY BY PRIORITY:

All activities are DOE-HQ Priority 2 and RL Priority B1.

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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## TASKS COMPLETED TO DATE:

One mixed waste disposal trench has been constructed.



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:  
No direct funding identified for FY 1994.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:  
No direct funding identified for FY 1995.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:  
No direct funding identified for FY 1996.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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2250-00-0005	Complete Mixed Waste Disposal Trench construction.	6/30/98	6/30/99
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

The trench will complete design and commence construction in FY 1998 and be operational for receipt of mixed waste by FY 1999.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Specific regulations in addition to others required are:

## CODE OF FEDERAL REGULATIONS

40CFR 191-03(B) - (Environmental Radiation Protection Standards for Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes)  
40CFR 60 - (Standards of Performance for New Stationary Sources) 40CFR 61 - (Radiation Emission Standards)  
40CFR 61 - (National Emission Standards for Hazardous Air Pollutants)  
40CFR 260 - (Hazardous Waste Management System)  
40CFR 261 - (Identification and Listing of Hazardous Waste)  
40CFR 262 - (Standards Applicable to Generators of Hazardous Waste)  
40CFR 264 - (Resource Conservation and Recovery Act (RCRA))  
40CFR 265 - (Interim Standards for Owners and Operators of Hazardous Waste TSD Facilities)

## WASHINGTON STATE REGULATIONS

WAC 173-303 - (Dangerous Waste Regulations)  
WAC 173-400 - (General Regulations for Air Pollution Sources)  
WAC 296-155 - (Washington Industrial Safety and Health Act)

## DEPARTMENT OF ENERGY ORDERS

DOE Order 4700.1A - (Project Management System)  
DOE Order 5400.1 - (General Environmental Protection Program)  
DOE Order 5400.5 - (Radiation Protection of the Public and the Environment)  
DOE Order 5480.1B - (Environmental, Safety, and Health Program for DOE Operations)  
DOE Order 5480.22 - (Technical Safety Requirements)  
DOE Order 5480.23 - (Nuclear Safety Analysis Reports)  
DOE Order 5480.24 - (Nuclear Criticality Safety)  
DOE Order 5480.3 - (Safety Requirements for the Packaging and Transportation of hazardous Materials, Hazardous Substances, and Hazardous Wastes)  
DOE Order 5480.4 - (Environmental Protection, Safety, and Health Protection Standards)  
DOE Order 5820.2A - (Radioactive Waste Management)  
DOE Order 6430.1A - (General Design Criteria)

## NESHAP REGULATIONS

## CAA REGULATIONS

## RCRA REGULATIONS

## TSCA REGULATIONS

## REGULATORY KEY ISSUES:

The mixed waste trench will provide for disposal of mixed low level wastes (MLLW).

## COMP/PROG BENEFITS AT PLANNING LEVEL:

The Program benefits of the project are: Compliance with the RCRA and WAC requirements.

## CONCERNS AT PLANNING LEVEL:

Failure to proceed with mixed waste disposal trench provides no RCRA compliant mixed waste disposal capabilities.

## REQUIRED TECHNICAL DEVELOPMENT:

No technology development is required.

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TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2300 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: LIQUID EFFLUENTS PROGRAM MANAGEMENT

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: NONE TPC: 0 TEC: 0

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW3130020	TOTAL
TOTAL	1501
DIRECT FTE	1501
	14

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	3782	2613	1501		1501	1555	1602	1650	1699
TOTAL	3782	2613	1501	0	1501	1555	1602	1650	1699
DIRECT FTE	42	21	14	0	14	14	14	14	14

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3130020	3782	2613	1501		1501	1555	1602	1650	1699
TOTAL	3782	2613	1501	0	1501	1555	1602	1650	1699
DIRECT FTE	42	21	14	0	14	14	14	14	14

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

The scope of the Program Management/Administration activity is to provide direction, coordination, and customer interface to those activities required to meet the major mission to manage current and future liquid effluent streams in a safe, responsible, cost effective, and legally compliant manner. the most immediate objective is to end the practice of using the soil column at the Hanford Site to 'treat' contaminated liquid effluents.

Program Manager and Activity Engineering provides coordination of those activities required to meet the program, Tri-Party Agreement, and Consent Order milestones.

Also provided is the administrative reporting and tracking functions and financial and scheduling support to the program.

Provides independent Readiness Review Board review and approval for the facilities being built under this program.

## RELATED ACTIVITIES NARRATIVE:

Construction support for the completion of the Liquid Effluent Treatment facilities is provided by ADS 2310-0, Hanford Environmental Compliance Project.

ADS 2300-01, supports the completion of the Phase II Stream BAT/AKART Implementation. Program management, administrative, financial, and scheduling support for this activity is provided under this ADS.

This ADS likewise provides program management, administrative, financial, and schedule support to the work planned under ADS 2330-00, Liquid Effluent Future Projects.

## KEY ASSUMPTIONS:

## ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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## TASKS COMPLETED TO DATE:

Provided program management, scheduling, financial, and administrative

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support in the form of Program Offices for the 200 Area Effluent Treatment Facility, 200 and 300 Area Treated Effluent Disposal Facilities, Interim Compliance Activities, Miscellaneous Streams Program, and the LERF program.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

In FY 1994, the individual program offices were disbanded with the transition for a development program to operating facilities. A reduced program office continues to provide overall program management and customer interface and milestone control, financial, scheduling, and administrative support. In FY 1994 the Program Office retained control of LERF Operations and Interim Compliance activities.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

Target Case funding: \$1,493K

Beginning in FY 1995 LERF activities and Interim Compliance work were transferred to the 200 Area Operations and Systems Engineering respectively. Remaining in the Program management sub-activity is the reduced program management function with activity engineers supporting the administrative, 200 Areas activities and the 300 Area activities. Also included in this sub-activity is funding for readiness review activities for the 200 Area ETF.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

Target Case funding: \$1,527K

Same as FY 1995.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

Target Case funding:

FY 1997: \$1,570K; FY 1998: \$1,605K; FY 1999: \$1,640K; FY 2000: \$1,676

Same as FY 1995. The target case funding supports the basic program



management, customer interface and scheduling, financial and administrative activities.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Tri-Party Agreement Milestones  
WAC 173-216 Consent Order

## REGULATORY KEY ISSUES:

## COMP/PROG BENEFITS AT PLANNING LEVEL:

None. Planning Level is the same as Target level.

## CONCERNS AT PLANNING LEVEL:

None

## REQUIRED TECHNICAL DEVELOPMENT:

None. It is assumed that existing technology will be utilized to meet the goals of this Activity Data Sheet.

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 2300 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: 200 AREA LIQUID EFFLUENT FACILITIES OPERATIONS

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: NONE TPC: 0 TEC: 10

DESCRIPTION: RICHLAND SOLID/LIQ WASTE &amp; DEC-NFP

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW3130020	TOTAL
CE 35EW31302	24250
TOTAL	150
DIRECT FTE	24400
	183

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3130020	10864	21200	24255			24255	24539	25439	26406
CE 35EW31302	189	150	150			150	100	100	100
TOTAL	11053	21349	24405	0		24405	24639	25539	26506
DIRECT FTE	86	187	183	0		183	183	183	183

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3130020	10864	21200	24255			24255	24539	25439	26406
CE 35EW31302	189	150	150			150	100	100	100
TOTAL	11053	21349	24405	0		24405	24639	25539	26506
DIRECT FTE	86	187	183	0		183	183	183	183

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

## 200 AREA LIQUID EFFLUENT FACILITIES

The 200 Area Liquid Effluent Facilities (LEF) are required to meet the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) major Milestone M-17-00 and the interim Milestone M-17-08B, 'Implement BAT/AKART at the generating facilities which will discharge to 200 Area Treated Effluent Disposal Facility (Project W-049H),' by June 1995. This program is also responsible for supporting the Tri-Party Agreement interim milestone M-26-04, 'Remove all hazardous waste residues from the 242-A Evaporator LERF units,' by June 1995. In addition, the LEF are required to meet the congressional mandate to cease discharge of contaminated liquids to the soil column. In meeting these goals, the activities that generate the effluent to be collected and disposed of can continue until such time the activities are no longer needed.

This Subactivity provides the personnel, procedures and hardware including the utilities, chemicals, spares, and other materials required to monitor construction, perform acceptance and operational testing, and develop the necessary administrative, technical support, maintenance and operational programs required for the Liquid Effluent Facilities. The performance of an Operational Readiness Review will ensure that all requirements are met before operation commences. Following startup, this subactivity will support the ongoing operational and maintenance requirements of the LEF and the facility upgrades that will be necessary to meet new and ongoing mission requirements.

The 200 Area Liquid Effluent Facilities (LEF) represents a collection of projects that will be operated and maintained by a single organization in order to meet TPA requirements to cease the discharge of contaminated liquids to the soil column in the 200 Areas. The LEF includes: Project C-018H, the 200 Area Effluent Treatment Facility (ETF), Project W-049H, the 200 Area Treated Effluent Disposal Facility (TEDF), portions of Projects W-291H, 200 Area BAT/AKART Implementation, and W-252, Phase II Liquid Effluent Treatment and Disposal, and Project W-105, Liquid Effluent Retention Facility (LERF).

The LEF are being staffed to operate 7 days per week, 24 hours per day. This operating schedule is needed to: support operation of the 200 Area TEDF; operate the ETF to treat the contents of the LERF basins and newly generated 242-A Evaporator Process condensate; and remove all LDR residues from the LERF as required by the Tri-Party Agreement milestone M-26-04. The number of staff designated and support resources identified (spares, utilities, chemicals, etc.) reflects levels necessary to maintain safe operations with sufficient coverage allocated for operations, operations support, maintenance, and training.

## 200 AREA EFFLUENT TREATMENT FACILITY (ETF)

In April 1989, the 242-A Evaporator was placed in temporary standby because of a concern that past Hanford Site waste management and chemical processing activities may have generated listed waste as defined by the 'Resource Conservation and Recovery Act' (RCRA) (1976). These wastes, which have subsequently been determined to be listed wastes, are currently

stored in double-shell tanks (DST). As a result, the 242-A Process Condensate is a listed waste via the 'derived from' rule and must be managed in accordance with RCRA. Additionally, the level of ammonia in the 242-A Evaporator Process Condensate is high enough to make this discharge a dangerous waste according to WAC 173-303 (Ecology 1989) criteria. DST wastes processed through the 242-A Evaporator to reduce the waste volume stored in the DSTs produces a concentrated waste stream, which is returned to the DSTs, and a process condensate (PC) stream, which was previously discharged to a soil column disposal site without further treatment.

The operation of the 242-A Evaporator is vital to supporting waste management and disposal activities, facility operations and standby conditions, and conducting the Hanford Site environmental restoration mission. It is not possible to support many Tri-Party Agreement commitments related to such activities if the evaporator remains in a standby condition. There is not sufficient tank space available to contain all contaminated liquid effluents generated on the Hanford Site.

The '242-A Evaporator/PUREX Plant Condensate Treatment Facility (Effluent Treatment Facility)' (Project C-018H), funded as part of the Hanford Environmental Compliance Line Item, is being constructed to provide effluent treatment and disposal capability required to support the continued operation of the 242-A Evaporator and to process the stored evaporator effluents in the LERF basins. The Effluent Treatment Facility was originally designed to also treat two PUREX streams, but with the decision to shut down PUREX, those streams are not being and will not be generated.

The Effluent Treatment Facility will provide: (1) collection for certain effluent streams, (2) a treatment system to reduce the concentration of radioactive and hazardous waste constituents in the effluent streams to acceptable levels, (3) tanks to permit verification of treated effluent characteristics prior to discharge, and (4) a state-approved land disposal structure (SALDS) for effluent disposal. The ETF treatment system has been designed to treat a continuous flow of 150 gpm with a total operating efficiency of 72%.

Secondary wastes will be generated from the Effluent Treatment Facility treatment processes. The primary sources of these wastes are the filter backwash, ion exchange regenerate, and permeate from the reverse osmosis system. The secondary waste will be concentrated in an evaporator and then dried in a thin film drier. The dry secondary waste will then be placed in lined steel drums designed to meet the requirements imposed by the state and DOE for storage and/or disposal of mixed solid waste.

Operation of the Effluent Treatment Facility is required by June 1995 in order to support the TPA major milestone M-17-00A to 'complete liquid effluent treatment facilities/upgrades for all Phase I streams' by June 1995.

The facility is being constructed under RCRA Interim Status. A Delisting Petition, required to allow disposal of the ETF treated effluents to the soil column, has been prepared and is being approved by EPA. The EPA has agreed that the Delisting Petition could be granted based on data derived from pilot plant testing which would demonstrate the capabilities of the

ETF design. A verification testing program will be required to monitor the actual effectiveness of the treatment system. A State Waste Discharge Permit (WAC 173-216) is also required for the disposal of the treated waste water to the soil column.

The ETF project will provide disposal of the treated waste water via a State Approved Land Disposal Structure (SALDS). The disposal site and structure will be approved by the DOE and Ecology and permitted under the 'State Waste Discharge Permit Program' (WAC 173-216). The SALDS for the ETF will consist of an underground drain field. The design percolation rates for the site will be established by site testing and/or evaluation of disposal site soil characteristics.

#### 200 AREA TREATED EFFLUENT DISPOSAL FACILITY (TEDF)

The 200 Area TEDF (Project W-049H) is required to support meeting the Tri-Party Agreement Major Milestone, M-17-00A, 'Complete Liquid Effluent Treatment Facilities/Upgrades for all Phase I Streams' by June 1995. This support of the major milestone will be achieved by meeting the interim Milestones, M-17-08, 'Initiate Full Scale Hot Operations For 200 Area Treated Effluent Disposal Facility (Project W-049H), With Permitted Disposal Of Effluent To Either The Soil Column Or Surface Water' and M-17-08B, 'Implement BAT/AKART At The Generating Facilities Which Will Discharge To 200 Area Treated Effluent Disposal Facility (Project W-049H) by June 1995.

The 200 Area Treated Effluent Disposal Facility (200 Area TEDF), Project W-049H, is designed to provide the collection and disposal system necessary to transport and dispose of the Hanford 200 Area Phase I waste streams (except 242-A Evaporator Process Condensate) remaining after application of Best Available Technology/All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment (BAT/AKART). The disposal will be by discharge to a State Approved Land Disposal System (SALDS), which in this case is to be a pair of five-acre disposal ponds, also permitted under the Washington State Waste Discharge Permit Program. To expedite the elimination of the more significant effluent discharges to the soil column in the 200 West Area, the 200 Area TEDF also includes the collection and disposal of two 200 West Area Phase II wastewater streams (284-W Power Plant and T Plant Laboratory Wastewater) after application of BAT/AKART.

Present planning now has the six 200 East Area Phase II waste streams discharging into the 200 Area TEDF by October 1997 for disposal via the TEDF disposal ponds. These 200 East Area Phase II streams will be connected to the TEDF as part of Project W-252, 'Phase II Liquid Effluent Treatment and Disposal' which will also implement BAT/AKART for these streams (see ADS 2300-01). This supports TPA Interim Milestone, M-17-00B 'Complete Implementation of BAT/AKART for all Phase II Liquid Effluent Streams at the Hanford Site'. While integrating into the overall discharge management strategy, W-252 Phase II waste streams are funded entirely separately from W-049H and maintain a October 1997 TPA compliance date.

Two additional effluents planned to discharge to the 200 Area TEDF include the HWVP wastewater and the 242-A-81 Water Services Building wastewater. These effluents did not previously exist and therefore were not identified in the original definition of Phase I and II streams. The 242-A-81 Water Services Building facility has been constructed to support the 242-A

Evaporator when it restarts while HWVP is projected to begin operations circa 1999 with its waste stream connected to the 200 Area TEDF. Also expected to eventually discharge to the 200 Area TEDF is the Multi-Function Waste Tank Facility being constructed as Project W-236A and which is expected to begin discharges in 1997 after application of BAT/AKART.

The 200 Area TEDF will obtain a State Waste Discharge Permit (WAC 173-216) for discharge of the collected combined effluent to the soil column. The State Waste Discharge Permit application is currently scheduled to be submitted to Ecology for review and comment in July 1994 with the issuance of the permit targeted for March 1995. The 216 permit also requires submittal of supporting documentation specified in WAC 173-240, which includes engineering reports, plans and specifications, and operations and maintenance manuals. Additionally, as a condition of the permitting process, each facility must implement BAT/AKART to maintain compliance with state regulatory discharge requirements and reduce the potential for incidental/accidental release of pollutants into the soil column. As a result, no provisions exist within the 200 Area TEDF to mitigate contamination should it enter the collection system. It is the obligation of each facility discharging to the 200 Area TEDF to ensure such accidental contaminated discharges are avoided.

While the majority of facilities planned for discharging waste streams into the 200 Area TEDF have adequate funding to support implementation of BAT/AKART through HEC line items, General Plant Projects, CENRTC, etc., programmatic oversight identified four facilities requiring funding not identified within the then existing financial structures. In order to implement BAT/AKART in these facilities, Project W-291H, '200 Area Effluent BAT/AKART Implementation' was developed as a fast track funding vehicle capable of meeting the June 1995 Tri-Party Agreement cease discharge milestones. The intent of this project is to provide the necessary systems, components, facility modifications, and structures required to implement BAT/AKART in accordance with WHC-SD-W049H-ER-003, '200 Area Treated Effluent Disposal Facility Wastewater Engineering Report,' and discharge effluent to the 200 Area TEDF.

#### 200 AREA BAT/AKART IMPLEMENTATION (Project W-291H)

The 200 Area BAT/AKART Implementation Project (Project W-291H) is intended to implement Best Available Technology/All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment (BAT/AKART) at four 200 Area facilities: T Plant, U03/U Plant, 2101-M Laboratory and the 284-W Power Plant.

The primary focus of the BAT/AKART Implementation project is to provide a fast track vehicle for addressing identified funding requirements and maintaining a design/construction schedule capable of meeting the June 1995 milestone to cease discharge of contaminated liquids to the soil column on the Hanford Site.

Work covered under the project include activities such as: (1) the modification of HVAC equipment, (2) facility piping, pumping, and instrumentation upgrades, (3) treating filter backwash wastewater, (4) elimination of selected waste streams, (5) connection to the 200 Area Treated Effluent Disposal Facility (TEDF), (6) installation of monitoring and control equipment in the 200 Area ETF control room.

#### RELATED ACTIVITIES NARRATIVE:

Completion of the workscope identified in the Subactivity is dependent on the full funding of ADS: 2310-01 - Hanford Environmental Compliance (HEC), Subactivity 2310 - AG. ADS 2310-01 provides the Line Item construction capital funding and operation expense funding required for construction project support.

Completion of the permitting of the 200 Area TEDF is dependent upon funding for stream characterization work required to support WAC 173-216 Permit applications. Stream characterization is funded under Subactivity AH of this ADS.

To meet milestone M-17-08B to implement BAT/AKART at the generating facilities, support to Project W-291H, '200 Area BAT/AKART Implementation', must be fully funded. The intent of Project W-291H is to provide the necessary systems, components, facility modifications, and structures required to implement BAT/AKART in accordance with WHC-SD-W049H-ER-003, '200 Area Treated Effluent Disposal Facility Wastewater Engineering Report,' and transfer effluent to the 200 Area TEDF.

Successful completion of milestone M-17-00 'implement BAT for Phase-I streams' is dependent upon the availability of adequate laboratory support for the Liquid Effluent Programs. A major portion of this support is being supplied by the Waste Characterization and Sampling Facility (WSCF). It is necessary that this laboratory activity be fully funded.

#### KEY ASSUMPTIONS:

The Tri-Party agreement, the WAC 173-216 Consent Order and the Congressional Commitment to cease contaminated soil column discharges are the prime drivers in developing the schedule for the Liquid Effluent Treatment projects and it is assumed that the time allotted in the project schedules for the permit application development and subsequent approvals is adequate.

#### EFFLUENT TREATMENT FACILITY

It is assumed that the Effluent Treatment Facility sub-contractor can complete the facility design, construction and Acceptance Test Procedures and provide the necessary information to train the operations staff in time for startup in June 1995.

It is also assumed the required State and Federal Permits will not impact the schedule. This includes the assumption that the regulatory agencies are adequately staffed and funded to review and approve the necessary permit applications.

The effluents stored in the LERF basins and the Evaporator process condensate are listed wastes ('derived from') and will require a federal delisting after treatment and prior to discharge to the soil column. It is assumed that the Environmental Protection Agency personnel required to review and approve the delisting petition have adequate time and funding to



support the schedule necessary to support the TPA.

The delisting strategy is based on the assumption that pilot plant testing of surrogate solutions will be adequate to demonstrate to the regulators that the treatment technologies selected for the ETF process train will result in a robust treatment system capable of treating any 242-A Evaporator PC which could reasonably be expected.

It has been assumed that the Operational Readiness Review (ORR) for this facility will be a category III, as the hazard categorization for the ETF is Category 3 (low hazard, nuclear). If this category is changed, the ORR requirements increased, or the ORR requirements changed, the schedule and costs may be significantly impacted.

It is assumed that soil column discharges will be permitted through the State Waste Discharge Permit Program and that the ETF can treat to the levels required by the permit.

The pilot plant testing of actual Evaporator process condensate will not be required to confirm the validity of the proposed process train to the regulators.

The Effluent Treatment Facility project is covered under Interim Status expansion.

The existing effluent characterization data is sufficient to support project development activities, such as safety analyses, design, air permitting, etc.

Operation of effluent treatment and disposal facilities will depend heavily on effluent sample analytical support. It is assumed that adequate laboratory support will be available to meet the LEF needs.

It is assumed that when the ETF is turned over to WHC, it will not require significant facility modification to meet the requirements of the ORR.

It is assumed that the Central Waste Complex has adequate resources to store the ETF secondary waste until disposal is possible.

#### 200 AREA TREATED EFFLUENT DISPOSAL FACILITY (TEDF)

It is assumed that the regulators will approve the BAT/AKART that will be implemented at the generating facilities and therefore the combined liquid effluents entering the 200 Area TEDF collection system will be suitable for discharge to a permitted disposal structure.

The existing characterization data indicates that the effluents to be discharged to the 200 Area TEDF are non-dangerous. It is assumed that additional characterization data will support this assumption and that the regulators will agree with the designation. Based on these assumptions the 200 Area TEDF is being designed as a non-RCRA facility.

Existing characterization data have resulted in a determination that the 200 Area TEDF is a low-hazard, non-nuclear, general use facility. It is assumed that new characterization data will support this determination. It is also assumed that DOE requirements will not be modified in such a way as

to change this determination.

All required State and Federal permits can be obtained by June 1995.

The Operational Readiness Review requirements will be based on a graded approach for a non-nuclear, low-hazard facility, general use facility.

Funding, equipment, facilities, personnel, technical skill, regulatory approvals and the supporting infrastructure needed to complete the 200 Area TEDF mission will be available when required.

#### LIQUID EFFLUENT RETENTION FACILITY (LERF)

It is assumed that once the Evaporator Process condensate is removed from the LERF, the basins will be closed. This assumption supports the existing planning that the LERF basins will not be used in the treatment of additional/new feeds to the ETF.

It is assumed that LERF cleanout will be a simple rinse out with clean water and that water can be put through the ETF during a period when it is not required for 242-A Evaporator feed. Further, it is assumed that existing funds will be adequate for this rinsing activity.

#### 200 AREA BAT/AKART IMPLEMENTATION (Project W-291H)

It is assumed that the W-291H sub-contractors can complete the facility design, construction and Acceptance Test Procedures and provide the necessary information to train the operations staff in time for startup in June 1995.

The required State and Federal Permits will not impact the schedule. This includes the assumption that the regulatory agencies are adequately staffed and funded to review and approve the necessary permit applications.

#### ACTIVITY BY PRIORITY:

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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ETF FACILITY CAPITAL EQUIPMENT  
ETF FACILITY CAPITAL EQUIPMENT  
ETF FACILITY CAPITAL EQUIPMENT

#### TASKS COMPLETED TO DATE:

##### EFFLUENT TREATMENT FACILITY

The design for the ETF collection and the disposal system has been completed. The contracts for the construction of the collection and disposal systems were awarded in early FY 1994.

DOE-HQ review of the alternatives engineering study for the ETF disposal site was completed in April 1992.

The Final Vadose Zone Modeling Report for the ETF disposal site was

completed in November 1992.

The Toxic Air Pollutants (TAPs) Application was approved by DOE-RL and WHC. The final permit is anticipated to be completed by the regulators in early FY-94.

The SEPA checklist was prepared in August 1992. An addendum was added to address the disposal of tritium and final approval was received in January 1994.

Initial submittal of the Delisting Petition occurred in October 1992 as required per TPA Milestone M-17-14C. The final petition was submitted to EPA in August 1993.

A revised notice of intent for expansion under interim status was prepared was issued in December 1992. The Part B Permit application was submitted to EPA in August 1993.

A Research, Development and Demonstration (RD&D) Permit application was prepared in December 1992 as required for compliance with RCRA and WAC 173-303. This permit authorizes pilot plan testing with actual hot feed. The permit was submitted in October 1991 as required by Tri-Party Agreement milestone M-20-49. The permit was subjected to a public review in late FY-93 and a final permit is expected from EPA in early FY 1994.

Pilot plant process envelope testing using surrogate feed was conducted through the second quarter of FY93. This testing was necessary to support the federal delisting petition and did not require an RD&D Permit.

The Pilot Plant Air Permit was approved by DOE-RL in January 1992 and by the Department of Health in March 1992.

The following pilot plant testing work has been completed: UV/Oxidation Feasibility Test Report (August 1992), UV/Oxidation Operability test report was (October 1992), reverse osmosis operability test report (June 1992), ion exchange test (November 1992), the granulated activated carbon Feasibility Test Plan (January 1992) and the revised filtration test plan (October 1993).

The Final Site Evaluation Report (FSER) for the ETF disposal site was released in March 1993.

Permit applications for the Radiological Airborne Emissions Permit and the Toxic Air Pollutant Permit required by the Washington State Department of Health per WAC 173-400-100, 173-400-110, 173-403-050, 173-480-060 and 402-80 was completed in the first quarter of FY93, prior to the start of construction of the ETF. The application for the National Emission Standards for Hazardous Air Pollutants (NESHAP) permit, required per 40 CFR Part 61 and Subpart H was be completed on the same schedule.

The RCRA Part B Permit Application was prepared and reviewed to support an August 1993 submittal.

A State Waste Discharge Permit application required for compliance with WAC 173-216 was prepared in the third quarter of FY93 in support of an August

1993 submittal, as required by TPA Milestone M-20-50.

Work will begin in January 1994 on a disposal site supplement to the engineering report required per WAC 173-240 which was initially submitted to Ecology in February 1992.

A draft Groundwater Monitoring Plan was prepared in March 1993.

DOE-RL review of the Notice of Intent for Interim Status expansion was prepared in December 1992 with subsequent transmission to Ecology.

The ETF Part A Permit Application was revised in April 1993 with a certified Part A permit Application transmitted to Ecology in August 1993.

A draft FSAR has been prepared and is being reviewed. The final FSAR will be issued in FY-94.

#### 200 AREA TREATED EFFLUENT DISPOSAL FACILITY

Completed project authorization for ACDR October 1990.

Prepared collection system conceptual design September 1991.

Performed soil scanning December 1991.

Conducted liner mechanism characteristics engineering study August 1991.

Completed Value Engineering study in February 1992.

Conducted LERF closure engineering study in September 1991 with review/approval in January 1992.

Submitted project management plan to DOE-RL in December 1991 with DOE-RL review/approval in February 1992.

The revision to the QA Program Plan was approved by DOE-RL in March 1992.

Collection system piping route soil investigation was completed in August 1992.

Review of W-049H hazard classification and the preliminary safety evaluation was conducted in October 1991.

The W-049H collection system definitive design was begun in January 1992.

The Design/Construction schedule was sent to Ecology and EPA as required by Milestone M-17-08A in February 1992.

The W-049H Collection System 30% Design Report was submitted to Ecology in June 1992, and the 80% Design Report was submitted to Ecology in January 1993.

The Effluent Disposal Options Report (EDOR) was completed and transmitted to RL in November 1991 and to HQ in January 1992.

The decision was made to proceed with the selected pond disposal option in

March 1992.

The draft Site Evaluation Report (SER) was completed in September 1991, the selected site was approved by RL in November 1991 and approved by Ecology in April 1992.

The draft Site Characterization Work Plan was submitted to Ecology for review in March 1992.

The NPDES permitting process evaluation report was completed in April 1991 and baseline conditions for the Columbia River were established in January 1992.

The Permitting Plan, Rev. 0, was completed in December 1992 and Rev. 1 was completed in October 1992.

The diffuse source permitting evaluation was completed in May 1991.

An estimate of air emissions was completed in October 1991 and the post BAT air-emissions estimate was completed in February 1992.

The preparation for the Washington State Department of Health (WDOH) air emissions notification was completed in March 1992, but was not required.

DOE-HQ approved the HEC Environmental Assessment in January 1992.

DOE reviewed/approved the collection system pipeline route soil investigation categorical exclusion in March 1992.

DOE reviewed and approved the W-049 Functional Design Criteria, Rev. 1, in August 1992.

The supplemental document for the 240 Engineering Report was submitted to Ecology in February 1992.

Completed the groundwater monitoring plan in November 1992.

Completed disposal site characterization field work in April 1993.

Completed the disposal site characterization modeling work in September 1993.

Obtained WHC/RL review/approval of the disposal site characterization report in September 1993.

Initiated groundwater monitoring in January 1993.

Completed preparation of draft Generating Facility Certification Plans in September 1993.

Completed Rev. 1 of the 240 Engineering Report to accommodate changes to BAT/AKART in October 1993.

Completed the 240 Engineering Report Disposal Site Characterization supplement in October 1993.

Completed collection system design in March 1993 and initiated construction activities in April 1993.

Completed disposal system 30% Design Report and submitted to Ecology in March 1993.

Completed disposal system design in August 1993 and awarded the disposal system construction contract in November 1993.

Completed SEPA checklist and submitted to Ecology November 8, 1993. Ecology SEPA Determination of Non-significance was issued December 13, 1993.

200 AREA BAT/AKART IMPLEMENTATION (Project W-291H)  
Received Key Decision #0 'Approval for CDR' on December 1992.

Completed project Functional Design Criteria on January 1993.

Completed project Preliminary Safety Evaluation on January 1993.

NEPA documentation completed (Categorical Exclusion) in February 1993.

Completed project Conceptual Design Report on May 1993.

Completed Advanced Conceptual Design in June 1993.

Received Key Decision #1-2 'Approval for Definitive Design' on September 1993.

Started Definitive Design in September 1993.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
2300-00-0110	INITIATE TEST PROCEDURES FOR THE 200 AREA ETF	6/30/94	6/30/94
2300-00-0340	SUBMIT 200 TEF STATE WASTE DISCHARGE PERMIT	9/30/94	9/30/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:  
EFFLUENT TREATMENT FACILITY

Monitor the completion of construction and the performance of the Acceptance Test procedures. Initiate Testing procedures by June 1994 as required by the Tri-Party Agreement Milestone M-17-14D.

Complete the Construction of the collection and disposal systems for the ETF.

Hire and train the Liquid Effluent Facilities organization to full staffing levels by October 1994.

Develop a comprehensive Training program which is in compliance with all applicable DOE and Ecology requirements and develop and implement required administrative procedures including: Emergency Response procedures, Occurrence Reporting procedures and other Administrative procedures. Develop and implement Self Assessment and Lessons Learned programs.

Generate and approve necessary operating documents, including: Operational Test Plans, Operational Test Specifications, Operational Test Procedures, Plant Operating procedures and Maintenance procedures.

Initiate Operational Readiness Review activities to support facility startup in June 1995.

Submit the FSAR for DOE-HW review in July 1994.

Develop Sampling plans and procedures for the process control samples and regulatory compliance samples.

Prepare Low Level Waste Certification Plan and Quality Assurance Program Plan for the shipment of secondary wastes generated in the ETF.

Initiate testing of actual 242-A process condensate in the pilot plant.

## 200 AREA TREATED EFFLUENT DISPOSAL FACILITY

Complete baseline groundwater monitoring activities in September 1994.

Begin preparation of the preventive maintenance procedures April 1994.

Submit the 216 Permit application to Ecology by August 1994.

Implement Generating Facility Certification Plan requirements by September 1994.

Continue collection system construction.

Initiate disposal system construction by February 1994.

Initiate readiness review activities by July 1994.

200 AREA BAT/AKART IMPLEMENTATION (Project W-291H)  
Complete Permitting Plan by January 1994.

Complete Preliminary Safety Analysis Report (PSAR) by February 1994.

Complete Definitive Design by March 1994. Kaiser Engineers Hanford will complete design on 2101-M, UO3/U Plant, and T Plant and Montgomery-Watson will complete 284-W Powerhouse.

Receive KD #3 'Approval to Construct/Procure' by March 1994

Start construction by April 1994.

Complete bid award (all 5 parts) by July 1994.

#### FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
2300-00-0035	CEASE DISCHARGE 242-A EVAP PROCESS CONDENSATE TO LERF BASINS	12/31/94	12/31/94
2300-00-0185	CEASE ALL DISCHARGES TO THE 216-W- LWC CRIB	1/31/95	1/31/95
2300-00-0520	ACHIEVE COMPLIANCE 222-S LAB WASTEWATER APPRVD PRETRTMT PERMIT	6/30/95	6/30/95
2300-00-0515	ACHIEVE COMPLIANCE UO3 PLT PROC CONDENSATE APPROVED TRTMT PERMIT	6/30/95	6/30/95
2300-00-0235	CEASE ALL DISCHARGE TO THE 216-T-4- 2 DITCH	6/30/95	6/30/95
2300-00-0255	CEASE ALL DISCHARGES TO THE 2101-M POND	6/30/95	6/30/95
2300-00-0220	CEASE ALL DISCHARGES TO THE 216-S- 26 CRIB	6/30/95	6/30/95
2300-00-0245	CEASE ALL DISCHARGES TO THE 216-T- 1 DITCH	6/30/95	6/30/95
2300-00-0020	CEASE ALL DISCHARGES TO THE 216-Z- 20 CRIB	6/30/95	6/30/95
2300-00-0210	CEASE ALL DISCHARGES TO THE 284-W POWERPLANT POND	6/30/95	6/30/95
2300-00-0015	CEASE B PLANT CHEMICAL SEWER DISCHARGE	6/30/95	6/30/95
2300-00-0025	CEASE DISCHARGE OF 242-S EVAP STEAM CONDENSATE TO 216-U-14 DITCH	6/30/95	6/30/95
2300-00-0150	CEASE DISCHARGE OF PUREX CHEMICAL SEWER TO THE 216-B-3 POND	6/30/95	6/30/95
2300-00-0115	CEASE DISCHARGE OF UO3/U PLANT WASTEWATER TO THE 216-U-14 DITCH	6/30/95	6/30/95
2300-00-0080	CEASE DISCHARGE TO HAZARDOUS WASTE	6/30/95	6/30/95



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3225 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 200-TP CHARACTERIZATION AND ASSESSMENT

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 432161 TEC: 432161

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW2010301		0
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----  
TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DRIVERS AND IMPACTS INFORMATION  
-----

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3225 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: 200-TP REMEDIAL ACTION

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 432161 TEC: 432161

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010302	TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010302	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010302	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

-----  
TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----  
TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

---

DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3230 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 200-UP CHARACTERIZATION AND ASSESSMENT

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 464793 TEC: 464793

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010301		TOTAL
TOTAL		3276
DIRECT FTE		3276
		22

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL BUD	LEGAL	ESH	TOTAL				
OE EW2010301	9094	4627	3276		3276	0	0	0	0
TOTAL	9094	4627	3276	0	3276	0	0	0	0
DIRECT FTE	48	33	22	0	22	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL BUD	LEGAL	ESH	TOTAL				
OE EW2010301	9094	4627	3276		3276	0	0	0	0
TOTAL	9094	4627	3276	0	3276	0	0	0	0
DIRECT FTE	48	33	22	0	22	0	0	0	0

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SCOPE INFORMATION

-----  
TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----  
TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3230-00-0010	INITIATE PILOT-SCALE PUMP AND TREAT OPERATIONS FOR 200-UP-1	3/31/94	3/31/94
3230-00-0020	SUBMIT 200-UP-2 VALIDATED DATA TO EPA/ECOLOGY	7/31/94	7/31/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3230-00-0005	SUBMIT 200-UP-1 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY	3/31/95	3/31/95
3230-00-0025	SUBMIT 200-UP-2 DRAFT LFI REPORT TO EPA/ECOLOGY	6/30/95	6/30/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3230-00-0030	SUBMIT DRAFT 200-UP-I LFI REPORT TO EPA/ECOLOGY	9/30/96	9/30/96

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DRIVERS AND IMPACTS INFORMATION  
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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3230 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: 200-UP REMEDIAL ACTION

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO: N/A TPC: 464793 TEC: 464793

DESCRIPTION: RCRA/CERCLA

DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW2010302		1589
TOTAL		1589
DIRECT FTE		9

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	0	0	1589		1589	2319	2370	222	227
TOTAL	0	0	1589	0	1589	2319	2370	222	227
DIRECT FTE	0	0	9	0	9	15	15	1	1

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	0	0	1589		1589	2319	2370	222	227
TOTAL	0	0	1589	0	1589	2319	2370	222	227
DIRECT FTE	0	0	9	0	9	15	15	1	1

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3235 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 200-ZP CHARACTERIZATION AND ASSESSMENT

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 751242 TEC: 751242

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010301		TOTAL
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3235 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: 200-ZP REMEDIAL ACTION

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO: N/A TPC: 751242 TEC: 751242

DESCRIPTION: RCRA/CERCLA

DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW2010302		10784
TOTAL		10784
DIRECT FTE		75

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995 RL BUD	FY1996 LEGAL	FY1996 ESH	FY1996 TOTAL	FY1997	FY1998	FY1999	FY2000
OE EW2010302	9777	11074	10784		10784	6135	5915	4154	4245
TOTAL	9777	11074	10784	0	10784	6135	5915	4154	4245
DIRECT FTE	44	68	75	0	75	37	34	22	22

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995 RL BUD	FY1996 LEGAL	FY1996 ESH	FY1996 TOTAL	FY1997	FY1998	FY1999	FY2000
OE EW2010302	9777	11074	10784		10784	6135	5915	4154	4245
TOTAL	9777	11074	10784	0	10784	6135	5915	4154	4245
DIRECT FTE	44	68	75	0	75	37	34	22	22

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3235-00-0005	INITIATE PILOT-SCALE PUMP AND TREAT OPERATIONS FOR 200-ZP-1	2/28/94	2/28/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3240 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 200-IU CHARACTERIZATION AND ASSESSMENT

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 1185851 TEC: 1185851

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010301		TOTAL
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

-----  
TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----  
TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DRIVERS AND IMPACTS INFORMATION

-----  
REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3240 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: 200-IU REMEDIAL ACTION

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 1185851 TEC: 1185851

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010302		TOTAL
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

-----  
TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----  
TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DRIVERS AND IMPACTS INFORMATION  
-----

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3245 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 200-SS CHARACTERIZATION AND ASSESSMENT

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO: N/A TPC: 177535 TEC: 177535

DESCRIPTION: RCRA/CERCLA

DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW2010301		0
TOTAL		0
DIRECT FTE		0

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

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SCHEDULE INFORMATION

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## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

---

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3245 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: 200-SS REMEDIAL ACTION

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 177535 TEC: 177535

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010302	TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010302	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010302	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3250 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 200-EAST GROUNDWATER CHARACTERIZATION AND ASSESSMENT

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 0 TEC: 0

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010301	TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
-----

TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3250 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: 200-EAST GROUNDWATER REMEDIAL ACTION

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 0 TEC: 0

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW2010302		0
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
-----

TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
-----

TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3255 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 200-WEST GROUNDWATER CHARACTERIZATION AND ASSESSMENT

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 0 TEC: 0

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010301	TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

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SCHEDULE INFORMATION

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## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

---

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

---

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

---

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

---

DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3255 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: 200-WEST GROUNDWATER REMEDIAL ACTION

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 0 TEC: 0

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010302		TOTAL
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302		0	0	0		0	0	0	0	0
TOTAL		0	0	0	0	0	0	0	0	0
DIRECT FTE		0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302		0	0	0		0	0	0	0	0
TOTAL		0	0	0	0	0	0	0	0	0
DIRECT FTE		0	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3300 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 300-FF CHARACTERIZATION AND ASSESSMENT

INSTALLATION: HANFORD-300

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 1272867 TEC: 1272867

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010301		TOTAL
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301		3801	3897	0		0	0	0	0	0
TOTAL		3801	3897	0	0	0	0	0	0	0
DIRECT FTE		28	25	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301		3801	3897	2125		2125	280	50	0	0
TOTAL		3801	3897	2125	0	2125	280	50	0	0
DIRECT FTE		28	25	14	0	14	2	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3300-00-0005	SUBMIT 300-FF-1 DRAFT RI 2 REPORT TO EPA/ECOLOGY	12/15/93	12/15/93
3300-00-0010	SUBMIT 300-FF-1 DRAFT FS PHASE 3 REPORT TO EPA/ECOLOGY	8/15/94	8/15/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3300-00-0050	SUBMIT THE 300-FF-2 OU DRAFT LFI WORK PLAN TO EPA/ECOLOGY	11/30/94	11/30/94
3300-00-0020	SUBMIT 300-FF-1 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY	12/31/94	12/31/94
3300-00-0015	SUBMIT COMBINED 300-FF-5 DRAFT RI 2/FS 3 REPORT TO EPA/ECOLOGY	1/31/95	1/31/95
3300-00-0030	SUBMIT 300-FF-5 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY	5/30/95	5/30/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3300-00-0065	SUBMIT 300-FF-2 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY	3/31/96	3/31/96

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3300-00-0060	SUBMIT 300-FF-2 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY	12/31/96	12/31/96
3300-00-0045	SUBMIT A 300-FF-2 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY	3/31/98	3/31/98

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3300 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: 300-FF REMEDIAL ACTION

INSTALLATION: HANFORD-300

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 1272867 TEC: 1272867

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010302	TOTAL
TOTAL	4111
DIRECT FTE	4111
	24

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	26	2790	4111		4111	12161	13504	16336	39531
TOTAL	26	2790	4111	0	4111	12161	13504	16336	39531
DIRECT FTE	0	17	24	0	24	57	70	52	137

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	26	2790	4111		4111	14658	18413	27494	50453
TOTAL	26	2790	4111	0	4111	14658	18413	27494	50453
DIRECT FTE	0	17	24	0	24	68	90	75	182

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:



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SCHEDULE INFORMATION

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## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

---

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

---

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

---

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

---

DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3390 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 1100-EM CHARACTERIZATION AND ASSESSMENT

INSTALLATION: HANFORD-1100

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 33572 TEC: 33572

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010301	TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
-----

TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
-----

TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3390-00-0010	SUBMIT 1100-EM-1 REMEDIAL DESIGN PLAN TO EPA/ECOLOGY	12/31/93	12/31/93

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3390 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: 1100-EM REMEDIAL DESIGN AND ACTION

INSTALLATION: HANFORD-1100

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 33572 TEC: 33572

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW2010302		0
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	7583	7243	0		0	0	0	0	0
TOTAL	7583	7243	0	0	0	0	0	0	0
DIRECT FTE	41	26	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	7583	7243	0		0	0	0	0	0
TOTAL	7583	7243	0	0	0	0	0	0	0
DIRECT FTE	41	26	0	0	0	0	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3390-00-0025	CLEAN UP ARID LANDS ECOLOGY FACILITY/PROVIDE CLOSEOUT DOCUMENT	10/30/94	10/30/94
3390-00-0005	M-16-81 COMPLETE REMED & CERCLA CONST RPT FOR ALE RESERVE	10/31/94	10/31/94

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3400 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: PROGRAM MANAGEMENT REMEDIAL ACTION

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A

TPC: 3858060

TEC: 3858060

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010301		TOTAL
TOTAL		17445
DIRECT FTE		126

## TARGET CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
			RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010301		16630	20531	17445			17445	15310	16121	16518
TOTAL		16630	20531	17445		0	17445	15310	16121	16518
DIRECT FTE		116	125	126		0	126	116	119	119

## PLANNING CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
			RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010301		16630	20531	17445			17445	15310	16121	16518
TOTAL		16630	20531	17445		0	17445	15310	16121	16518
DIRECT FTE		116	125	126		0	126	116	119	119

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3400-00-0250	SUBMIT FY94 MULTI-YEAR PROGRAM PLAN FORMAL DRAFT TO RL (ANNUALLY)	12/15/93	12/15/93
3400-00-0035	M-13-80 SUBMIT COMPENDIUM OF COLUMBIA RIVER CONTAMINANT DATA	4/30/94	4/30/94
3400-00-0025	M-13-80A COMPLETE RIVER CONTAMINANT WORKSHOPS	6/30/94	6/30/94
3400-00-0065	SUBMIT FINAL DRAFT FY 1995 FYWP TO RL (ANNUALLY)	8/29/94	8/29/94
3400-00-0020	M-13-81 SUBMIT WORK PLAN ON HANFORD GW REMEDIATION STRATEGY	8/31/94	8/31/94
3400-00-0010	HOLD FOUR QUARTERLY TPA PUBLIC MEETINGS (ANNUALLY)	9/30/94	9/30/94
3400-00-0220	ISSUE FINAL FY 1995 FISCAL YEAR WORK PLAN TO RL (ANNUALLY)	9/30/94	9/30/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3400-00-0015	M-13-81A SUBMIT WORK PLAN ON THE HANFORD GW PROTECTION MGT. PLAN	10/31/94	10/31/94
3400-00-0255	SUBMIT FY95 RICH. ER PROGRAM PLAN FORMAL DRAFT TO RL (ANNUALLY)	12/15/94	12/15/94
3400-00-0090	M-70-03 SUBMIT ER DATA MANAGEMENT PLAN TO EPA/ECOLOGY	3/31/95	3/31/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3400 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: PROGRAM MANAGEMENT - D&amp;D

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 3858060 TEC: 3858060

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010401	TOTAL
TOTAL	2773
DIRECT FTE	2773
	15

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010401	0	1081			2773	2773	3301	4829	3358
TOTAL	0	1081	0		2773	2773	3301	4829	3358
DIRECT FTE	11	10	0		15	15	15	15	14

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010401	0	1081			2773	2773	3301	4829	3358
TOTAL	0	1081	0		2773	2773	3301	4829	3358
DIRECT FTE	11	10	0		15	15	15	15	14

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3400-00-0045	REVIEW AND UPDATE HANFORD SURPLUS FACILITY HAZ. DOC. (ANNUALLY)	9/30/94	9/30/94
3400-00-0040	UPDATE FY94 DECOMMISSIONING PROGRAM PLAN (ANNUALLY)	9/30/94	9/30/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3400 ADS SUF: 0 SUBACTIVITY: AC

SUBACTIVITY TITLE: QUALITY ASSURANCE &amp; SELF-ASSESSMENT

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 3858060 TEC: 3858060

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010301	TOTAL
	4599
TOTAL	4599
DIRECT FTE	24

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010301	3250	5372			4599	4599	4631	5868	7079
TOTAL	3250	5372	0		4599	4599	4631	5868	7079
DIRECT FTE	16	28	0		24	24	24	29	34

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010301	3250	5372			4599	4599	4631	5868	7079
TOTAL	3250	5372	0		4599	4599	4631	5868	7079
DIRECT FTE	16	28	0		24	24	24	29	34

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3400 ADS SUF: 0 SUBACTIVITY: AD

SUBACTIVITY TITLE: RL CONTRACTS

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 3858060 TEC: 3858060

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010301	TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010301	10366	0	0			0	0	0	0
TOTAL	10366	0	0	0	0	0	0	0	0
DIRECT FTE	16	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010301	10366	0	0			0	0	0	0
TOTAL	10366	0	0	0	0	0	0	0	0
DIRECT FTE	16	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3400-00-0050	ISSUE DRAFT HRA-EIS TO HQ	7/03/94	7/03/94
3400-00-0165	DELIVER DRAFT REV. (QASR) DOCUMENT TO THE USERS GROUP (ANNUALLY)	8/31/94	8/31/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3400-00-0080	ISSUE FINAL HRA-EIS TO HQ	1/01/95	1/01/95
3400-00-0085	ISSUE HRA-EIS RECORD OF DECISION TO PUBLIC	4/01/95	4/01/95
3400-00-0095	DRAFT TEST RPT TO RL FOR BENCH- SCALE TESTING OF IN-SITU CHEM GW	9/30/95	9/30/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3400-00-0110	COMP BENCH-SCALE TEST ON CONTAM MEDIA FOR IN-SITU CHEM TREAT GW	9/30/96	9/30/96

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3400-00-0125	COMP LARGE SCALE TEST ACTIVITIES FOR IN-SITU CHEM TREAT FOR GW	9/30/97	9/30/97
3400-00-0140	COMPLETE FIELD TEST ACTIVITY OF HANFORD BARRIER	9/30/97	9/30/97
3400-00-0145	COMPLETE PROTOTYPE TESTING OF HANFORD BARRIER	9/30/97	9/30/97
3400-00-0130	COMP FIELD DEMO & RPT ON IN-SITU CHEM TREATMENT FOR GW	5/31/98	5/31/98
3400-00-0150	COMPLETE FINAL HANFORD BARRIER DESIGN PACKAGE	9/30/98	9/30/98

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3400 ADS SUF: 0 SUBACTIVITY: AE

SUBACTIVITY TITLE: CAPITAL EQUIPMENT &amp; TECHNOLOGY ADAPTIONS

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 3858060 TEC: 3858060

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010301	TOTAL
TOTAL	6628
DIRECT FTE	6628
	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW2010301	28318	14731	17618		17618	16420	13645	14305	16068
TOTAL	28318	14731	17618	0	17618	16420	13645	14305	16068
DIRECT FTE	95	45	61	0	61	63	63	73	79

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW2010301	28318	14731	17618		17618	16420	13645	14305	16068
TOTAL	28318	14731	17618	0	17618	16420	13645	14305	16068
DIRECT FTE	95	45	61	0	61	63	63	73	79

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

FY 1994 MILESTONES:  
MILESTONE ID TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

FY 1995 MILESTONES:  
MILESTONE ID TITLE

PLANNING

TARGET

3400-00-0005 HOLD INTERNATIONAL WORKSHOP ON  
LONG-RANGE PROTECTIVE BARRIERS

9/30/95

9/30/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

FY 1996 MILESTONES:  
MILESTONE ID TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

FY 1997-FY 2000 MILESTONES:  
MILESTONE ID TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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SCOPE INFORMATION

-----  
TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3400 ADS SUF: 0 SUBACTIVITY: AF

SUBACTIVITY TITLE: LABORATORY SUPPORT

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 3858060 TEC: 3858060

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010301		TOTAL
TOTAL		482
DIRECT FTE		482
		5

## TARGET CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301		3379	470	482		482	494	522	552	640
TOTAL		3379	470	482	0	482	494	522	552	640
DIRECT FTE		24	5	5	0	5	5	5	5	5

## PLANNING CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010301		3379	470	482		482	494	522	552	640
TOTAL		3379	470	482	0	482	494	522	552	640
DIRECT FTE		24	5	5	0	5	5	5	5	5

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3400 ADS SUF: 0 SUBACTIVITY: AG

SUBACTIVITY TITLE: RL COMPLIANCE OVERSIGHT

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 3858060 TEC: 3858060

DESCRIPTION: COMPLIANCE OVERSIGHT

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010700		TOTAL
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010700	4000	0	0		0	0	0	0	0
TOTAL	4000	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010700	4000	0	0		0	0	0	0	0
TOTAL	4000	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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SCOPE INFORMATION

-----  
TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3410 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: PROGRAM MANAGEMENT SUPPORT D&amp;D

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 1280674 TEC: 1280674

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010401		TOTAL
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010401		1125	0		0	0	0	0	0	0
TOTAL		1125	0	0	0	0	0	0	0	0
DIRECT FTE		11	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010401		1125	0		0	0	0	0	0	0
TOTAL		1125	0	0	0	0	0	0	0	0
DIRECT FTE		11	0	0	0	0	0	0	0	0

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3410 ADS SUF: 0 SUBACTIVITY: AD

SUBACTIVITY TITLE: RL CONTRACTS

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 1280674 TEC: 1280674

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010301	TOTAL
	7862
TOTAL	7862
DIRECT FTE	19

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010301	0	6960	7862			7862	7352	6697	6943
TOTAL	0	6960	7862	0		7862	7352	6697	6943
DIRECT FTE	0	17	19	0		19	19	19	19

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010301	0	6960	7862			7862	7352	6697	6943
TOTAL	0	6960	7862	0		7862	7352	6697	6943
DIRECT FTE	0	17	19	0		19	19	19	19

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K .  
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TASKS COMPLETED TO DATE:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3410 ADS SUF: 0 SUBACTIVITY: AG

SUBACTIVITY TITLE: RL COMPLIANCE OVERSIGHT

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 1280674 TEC: 1280674

DESCRIPTION: COMPLIANCE OVERSIGHT

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010700	TOTAL
TOTAL	5700
DIRECT FTE	5700
	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010700	0	4000	5700			5700	6555	7568	7712
TOTAL	0	4000	5700		0	5700	6555	7568	7712
DIRECT FTE	0	0	0		0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010700	0	4000	5700			5700	6555	7568	7712
TOTAL	0	4000	5700		0	5700	6555	7568	7712
DIRECT FTE	0	0	0		0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:



OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3500 ADS SUF: 0 SUBACTIVITY: RA

SUBACTIVITY TITLE: ASBESTOS ABATEMENT

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 167172 TEC: 167172

DESCRIPTION: D&D

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010402		TOTAL
TOTAL		3203
DIRECT FTE		3203
		29

## TARGET CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010402		1617	2801		3203	3203	3076	3542	3668	3794
TOTAL		1617	2801	0	3203	3203	3076	3542	3668	3794
DIRECT FTE		19	26	0	29	29	27	31	31	31

## PLANNING CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010402		1617	2801		3203	3203	3076	3542	3668	3794
TOTAL		1617	2801	0	3203	3203	3076	3542	3668	3794
DIRECT FTE		19	26	0	29	29	27	31	31	31

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3500-00-0045	UPDATE THE AAP FOR FY 1995 AND SUBMIT TO RL FOR APPROVAL	8/15/94	8/15/94
3500-00-0010	PROVIDE WORK PERFORMANCE REPORT PER AAP (QUARTERLY) (SEE DESC.)	9/30/94	9/30/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3500-00-0015	PROVIDE WORK PERFORMANCE REPORT PER AAP (QUARTERLY) (SEE DESC.)	9/30/95	9/30/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3500-00-0020	PROVIDE WORK PERFORMANCE REPORT AGAINST AAP QUARTERLY (SEE DESC)	9/30/96	9/30/96

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3500-00-0025	PROVIDE WORK PERFORMANCE REPORT AGAINST AAP QUARTERLY (SEE DESC)	9/30/97	9/30/97
3500-00-0030	COMPLETE ALL PRIORITY CLASS A & B ABATEMENT IN EM-40 FACILITIES	9/30/98	9/30/98
3500-00-0035	PROVIDE WORK PERFORMANCE REPORT AGAINST AAP QUARTERLY (SEE DESC)	9/30/98	9/30/98
3500-00-0040	PROVIDE WORK PERFORMANCE REPORT AGAINST AAP QUARTERLY (SEE DESC)	9/30/99	9/30/99
3500-00-0005	PROVIDE WORK PERFORMANCE REPORT PER AAP (QUARTERLY) (SEE DESC.)	9/30/00	9/30/00

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3510 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 100 AREA D&amp;D - ASSESSMENT

INSTALLATION: HANFORD-100

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 805447 TEC: 805447

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010401	TOTAL
	6566
TOTAL	6566
DIRECT FTE	49

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW2010401	5212	10177		7066	7066	7116	9154	3289	2959
TOTAL	5212	10177	0	7066	7066	7116	9154	3289	2959
DIRECT FTE	50	69	0	53	53	51	60	32	29

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW2010401	5212	10177		7066	7066	7116	9154	3289	2959
TOTAL	5212	10177	0	7066	7066	7116	9154	3289	2959
DIRECT FTE	50	69	0	53	53	51	60	32	29

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

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SCHEDULE INFORMATION

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## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3510-00-0145	ISSUE A PLAN TO IMPLEMENT PRIORITIZED CORRECTIVE ACTIONS	12/31/93	12/31/93
3510-00-0020	FY93 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS	12/31/93	4/30/94
3510-00-0010	M-16-80 SUB ENG EVAL/COST ANAL 100 AREA RIVERLINES (SEE DESC.)	9/30/94	9/30/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3510-00-0025	FY94 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS	12/31/94	12/31/94

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3510-00-0030	FY95 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS	12/31/95	12/31/95

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3510-00-0035	FY96 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS	12/31/96	12/31/96
3510-00-0050	COMPLETE HIGH PRIORITY CORRECTIVE MAINTENANCE PER (see desc)	9/30/97	9/30/97
3510-00-0040	FY97 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS	12/31/97	12/31/97
3510-00-0045	FY98 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS	12/31/98	12/31/98
3510-00-0055	COMPLETE REMAINING "MODERATE" 100/200 AREA RISK ASSESSMENT WORK	9/30/99	9/30/99
3510-00-0015	FY99 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS	12/31/99	12/31/99

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3510 ADS SUF: 0 SUBACTIVITY: RA

SUBACTIVITY TITLE: 100 AREA D&amp;D - REMEDIAL ACTION

INSTALLATION: HANFORD-100

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 805447 TEC: 805447

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010402	TOTAL
TOTAL	7035
DIRECT FTE	7035
	44

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010402	5162	11637			14185	14185	18179	22623	35274
TOTAL	5162	11637	0		14185	14185	18179	22623	35274
DIRECT FTE	37	52	0		50	50	96	127	150

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010402	5162	11637			14185	14185	18179	22623	35274
TOTAL	5162	11637	0		14185	14185	18179	22623	35274
DIRECT FTE	37	52	0		50	50	96	127	150

## SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

# SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3510-00-0080	COMPLETE DEMOLITION OF 185-B/190-B COMPLEX	1/28/94	1/28/94
3510-00-0135	INITIATE CONCEPTUAL DESIGN CDR (C-REACTOR)	1/31/94	1/31/94
3510-00-0110	COMPLETE MATERIAL PROCESSING AT 185-B/190-B COMPLEX	6/30/94	6/30/94
3510-00-0120	COMPLETE CONCEPTUAL DESIGN REPORT FOR 105-C REACTOR	9/30/94	9/30/94
3510-00-0005	COMPLETE DEMOLITION OF 190-D HIGH BAY	9/30/94	9/30/94
3510-00-0140	COMPLETE SAFETY DOCUMENTATION PROGRAM PLAN (C-REACTOR)	9/30/94	9/30/94
3510-00-0070	ISSUE FINAL PROJECT CLOSEOUT REPORT TO RL (185-B/190-B)	9/30/94	9/30/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3510-00-0105	COMPLETE DEMOLITION OF THE 190-D COMPLEX	9/30/95	9/30/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3510-00-0090	PREPARE AND ISSUE WORK PLAN FOR 190-C DEMOLITION	12/31/95	12/31/95
3510-00-0125	COMPLETE DEMOLITION OF THE 108-F BIOLOGY LAB PER WORK PLAN	9/30/96	9/30/96

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3510-00-0095	COMPLETE DEMOLITION OF 190-C ANCILLARY PER WORK PLAN	9/30/97	9/30/97
3510-00-0065	PREPARE AND ISSUE WORK PLAN FOR DEMOLITION OF 183-C	3/31/98	3/31/98
3510-00-0130	COMPLETE 100-BC-1 RIVERLINE REMEDIAL ACTIONS	9/30/98	9/30/98
3510-00-0115	COMPLETE DEMOLITION OF 117-DR & 119-DR ANCILLARIES PER WORK PLAN	9/30/98	9/30/98

ADS ID: 3510

ADS SUF: 0

SUB ACT: RA

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3510-00-0085    COMPLETE DEFINITIVE  
                 DESIGN/INITIATE FINAL PHASE (105-  
OUTYEAR (FY 1997-2000) TASK NARRATIVE:

12/31/99

12/31/99

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

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OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3520 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 200 AREA D&amp;D - ASSESSMENT

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 751224 TEC: 751224

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010401	TOTAL
TOTAL	3920
DIRECT FTE	3920
	40

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999_FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010401	6177	3832		3920	3920	4007	4095	4185 4277
TOTAL	6177	3832	0	3920	3920	4007	4095	4185 4277
DIRECT FTE	57	40	0	40	40	40	40	40 40

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999_FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010401	6177	3832		3920	3920	4007	4095	4185 4277
TOTAL	6177	3832	0	3920	3920	4007	4095	4185 4277
DIRECT FTE	57	40	0	40	40	40	40	40 40

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3520-00-0010	OBTAIN REGULATORY APPROVAL (232-Z)	1/31/94	1/31/94
3520-00-0035	INITIATE 233-S SITE PREPARATION	4/30/94	4/30/94
3520-00-0025	INITIATE 233-S EXTERIOR WORK	7/31/94	7/31/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3520 ADS SUF: 0 SUBACTIVITY: RA

SUBACTIVITY TITLE: 200 AREA D&amp;D - REMEDIAL ACTION

INSTALLATION: HANFORD-200

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 751224 TEC: 751224

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010402		TOTAL
TOTAL		1825
DIRECT FTE		1825
		9

## TARGET CASE (\$ IN THOUSANDS)

		FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010402		0	3046			1825	1825	1557	1999	2121
TOTAL		0	3046	0		1825	1825	1557	1999	2121
DIRECT FTE		0	17	0		9	9	8	12	13

## PLANNING CASE (\$ IN THOUSANDS)

		FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010402		0	3046			1825	1825	1557	1999	2121
TOTAL		0	3046	0		1825	1825	1557	1999	2121
DIRECT FTE		0	17	0		9	9	8	12	13

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----  
TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

3520-00-0020 COMPLETE 233-S DETAILED ENGINEERING  
BUDGET YEAR (FY 1995) TASK NARRATIVE:

9/30/95

9/30/95

## FY 1996 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

3520-00-0015 COMPLETE 233-S DECONTAMINATION  
PLANNING YEAR (FY 1996) TASK NARRATIVE:

9/30/96

9/30/96

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

3520-00-0005 COMPLETE 232-Z DETAILED ENGINEERING  
3520-00-0030 COMPLETE 232-Z DECONTAMINATION  
OUTYEAR (FY 1997-2000) TASK NARRATIVE:

9/30/97

9/30/97

9/30/00

9/30/00

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3530 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 300 AREA D&amp;D - ASSESSMENT

INSTALLATION: HANFORD-300

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 7255 TEC: 7255

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010401	TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010401	0	0			0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010401	0	0			0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3600 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: N REACTOR SAFETY ASSESSMENT

INSTALLATION: HANFORD-100

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 848319 TEC: 848319

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010401	TOTAL
TOTAL	4915
DIRECT FTE	4915
	40

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010401	3641	5907			4915	4915	7168	383	392
TOTAL	3641	5907	0		4915	4915	7168	383	392
DIRECT FTE	26	47	0		40	40	50	3	3

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010401	3641	5907			4915	4915	7168	383	392
TOTAL	3641	5907	0		4915	4915	7168	383	392
DIRECT FTE	26	47	0		40	40	50	3	3

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3600-00-0005	TRANSMIT N REACTOR SHORELINE DOSE REDUCTION ENV. ASSESSMENT TO RL	7/31/94	7/31/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3600-00-0025	M-16-10E-T3 CHARACTERIZATION OF N REACTOR FUEL STORAGE BASIN	6/30/97	6/30/97

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3600 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: N REACTOR FACILITY COMPLIANCE - ASSESSMENT

INSTALLATION: HANFORD-100

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 848319 TEC: 848319

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010401	TOTAL
	15954
TOTAL	15954
DIRECT FTE	123

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010401	14660	14967			15954	15954	15838	5040	4930
TOTAL	14660	14967	0		15954	15954	15838	5040	4930
DIRECT FTE	117	122	0		123	123	110	39	39

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010401	14660	14967			15954	15954	15838	5040	4930
TOTAL	14660	14967	0		15954	15954	15838	5040	4930
DIRECT FTE	117	122	0		123	123	110	39	39

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3600-00-0030	M-16-01C SUBMIT DRAFT N AREA PILOT PROJECT PLAN TO EPA/ECOLOGY	5/31/94	5/31/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3600-00-0020	M-16-01E-T2 INITIATE PRETREATMENT AND REMOVAL OF BASIN WATERS	9/30/95	9/30/95
3600-00-0015	M-16-0E1-T1 REMOVAL AND DISPOSAL OF 118N/1303N SILO FUEL SPACERS	9/30/95	9/30/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3600-00-0010	M-16-01E COMPLETE N REACTOR/N AREA DEACTIVATION	9/30/97	9/30/97

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3600 ADS SUF: 0 SUBACTIVITY: AC

SUBACTIVITY TITLE: HANFORD GENERATING PLANT ASSESSMENT

INSTALLATION: HANFORD-100

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 848319 TEC: 848319

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW2010401		61
TOTAL		61
DIRECT FTE		1

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL BUD	LEGAL	ESH	TOTAL				
OE EW2010401	132	760	61		61	63	64	65	67
TOTAL	132	760	61	0	61	63	64	65	67
DIRECT FTE	1	1	1	0	1	1	1	1	1

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL BUD	LEGAL	ESH	TOTAL				
OE EW2010401	132	760	61		61	63	64	65	67
TOTAL	132	760	61	0	61	63	64	65	67
DIRECT FTE	1	1	1	0	1	1	1	1	1

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3600 ADS SUF: 0 SUBACTIVITY: RA

SUBACTIVITY TITLE: N BASIN REMEDIATION

INSTALLATION: HANFORD-100

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 848319 TEC: 848319

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010402	TOTAL
	7924
TOTAL	7924
DIRECT FTE	40

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010402	1530	5877			7924	7924	6521	0	0
TOTAL	1530	5877	0		7924	7924	6521	0	0
DIRECT FTE	17	37	0		40	40	40	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010402	1530	5877			7924	7924	6521	0	0
TOTAL	1530	5877	0		7924	7924	6521	0	0
DIRECT FTE	17	37	0		40	40	40	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
-----

TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3600 ADS SUF: 0 SUBACTIVITY: RB

SUBACTIVITY TITLE: FACILITY D&amp;D REMEDIATION

INSTALLATION: HANFORD-100

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 848319 TEC: 848319

DESCRIPTION: D&amp;D

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010402	TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010402	0	0	0	0	0	4664	18545	14152	6627
TOTAL	0	0	0	0	0	4664	18545	14152	6627
DIRECT FTE	0	0	0	0	0	22	85	64	29

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW2010402	0	0	0	0	0	4664	18545	14152	6627
TOTAL	0	0	0	0	0	4664	18545	14152	6627
DIRECT FTE	0	0	0	0	0	22	85	64	29

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3700 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: THE DISPOSAL FACILITY

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO: N/A TPC: 1117321 TEC: 1117321

DESCRIPTION: RCRA/CERCLA

DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW2010302		29767
TOTAL		29767
DIRECT FTE		30

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL BUD	LEGAL	ESH	TOTAL				
OE EW2010302	11245	39725	36843		36843	34641	32531	34074	4276
TOTAL	11245	39725	36843	0	36843	34641	32531	34074	4276
DIRECT FTE	69	36	30	0	30	16	14	12	0

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL BUD	LEGAL	ESH	TOTAL				
OE EW2010302	11245	39725	36843		36843	34641	32531	34074	4276
TOTAL	11245	39725	36843	0	36843	34641	32531	34074	4276
DIRECT FTE	69	36	30	0	30	16	14	12	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

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CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3700-00-0025	M-70-01 PROVIDE ERDF DRAFT CDR TO THE REGULATORS	2/28/94	2/28/94
3700-00-0020	M-70-02 SUB INFO FOR CAMU DESIGN & CERCLA ROD TO REGULATORS	9/30/94	9/30/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
3700-00-0015	M-70-00 ERDF TO BE OPERATIONAL ON SEPTEMBER 30, 1996	9/30/96	9/30/96

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DRIVERS AND IMPACTS INFORMATION  
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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3800 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: FACILITY SURVEILLANCE AND MAINTENANCE

INSTALLATION: HANFORD

CATEGORY: ER DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A TPC: 21516 TEC: 21516

DESCRIPTION: LONG-TERM SURVEILLANCE AND MAINTENANCE

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW2010450		TOTAL
TOTAL		230
DIRECT FTE		230
		1

## TARGET CASE (\$ IN THOUSANDS)

		FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010450		0	0	230		230	237	244	252	259
TOTAL		0	0	230	0	230	237	244	252	259
DIRECT FTE		0	0	1	0	1	1	1	1	1

## PLANNING CASE (\$ IN THOUSANDS)

		FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010450		0	0	230		230	237	244	252	259
TOTAL		0	0	230	0	230	237	244	252	259
DIRECT FTE		0	0	1	0	1	1	1	1	1

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DRIVERS AND IMPACTS INFORMATION  
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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 3999 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: SITEWIDE INTEGRATION AND PRODUCTIVITY COMMITMENT

INSTALLATION: HANFORD

CATEGORY: ER

DEFENSE/NON-DEFENSE: D

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: N/A

TPC: 0

TEC: 0

DESCRIPTION: RCRA/CERCLA

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW2010302	TOTAL
TOTAL	8237
DIRECT FTE	8237
	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	0	0	7111		7111	14748	15562	15950	16240
TOTAL	0	0	7111	0	7111	14748	15562	15950	16240
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW2010302	0	0	0		0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----

TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4110 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: K BASIN PROGRAM MANAGEMENT

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: K-BASINS OPERATIONS PROGRAM

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW3135040		TOTAL
TOTAL		1283
DIRECT FTE		14

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL			
B&R									
OE EW3135040	-2645	1256			1283	1283	1553	1599	1598
TOTAL	-2645	1256	0		1283	1283	1553	1599	1598
DIRECT FTE	10	14	0		14	14	16	16	15

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL			
B&R									
OE EW3135040	-2645	1517			1552	1552	1553	1599	1598
TOTAL	-2645	1517	0		1552	1552	1553	1599	1598
DIRECT FTE	10	17	0		17	17	16	16	15

## SCOPE INFORMATION

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### TECHNICAL SCOPE NARRATIVE:

The K Basins Program Management and Integration subactivity is comprised of three distinct tasks: Program Management, Business Management, and Nuclear Materials Planning.

Program Management is responsible for defining and scheduling program requirements, coordinating activities to ensure that cost and schedule commitments are met, facilitating communication among project participants, reporting, and interfacing with program participants and DOE-RL.

Business Management is responsible for: providing K Basin Program budget planning, funds control, and cost reporting for the K Basins Program including expense funds, capital line item funds, CENRTC funds, and capital work order funds, preparing monthly reports on cost and budget performance for the K Basins Program, managing the activities of the Change Control Board and maintaining the Change Log, providing interface with WHC and the DOE management relative to overall site budgeting, planning, and reporting requirements, managing capital cost accounting and transfers for asset disposition in accordance with WHC procedures, and adhering to the procedures for budgeting and funds management as defined by the Management Control System. Business Management will prepare the Fiscal Year Workplan, the Multi-Year Program Plan, Activity Data Sheets for the Five Year Plan, and perform other duties associated with the Site Management System and Progress Tracking System.

Nuclear Materials Planning (NMP) at the direction of DOE-HQ involves reporting on nuclear material inventories, production and shipping, and resolution of report variances. NMP provides planning, technical support, analysis and information in support of various proposals, studies and requests in the areas of fuel movements, inventory planning, spent fuel analysis, isotopic analysis and contingency studies. NMP also maintains and updates computer code (BASIM) to simulate storage basin receipts, shipments, inventories, and storage availability.

### RELATED ACTIVITIES NARRATIVE:

This subactivity is integrated with other K Basin subactivities through the sharing of common management, administrative and operational resources.

### KEY ASSUMPTIONS:

Reporting and work scope requirements will remain at current year levels.

### ACTIVITY BY PRIORITY:

The workscope described in this TDD has been assigned a Priority 1 using the DOE-HQ four category system.

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

Management activities associated with the day-to-day operation of the K Basins as well as meeting requirements for the Site Management System and Progress Tracking System.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

Current year activities are described above in the ''Technical Scope''.

Same as current year.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

Same as current year.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

Same as current year.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

Same as current year.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Program Management and Integration:

DOE 5480.19 - Conduct of Operations Requirements for DOE Facilities

RL 5700.1A - Quality Assurance

DOE 5700.6C - Quality Assurance

10 CFR 72 - Licensing Requirements for the Storage of Spent Fuel in an Independent Spent Fuel Storage Installation

Business Management:

DOE 1324.5 - Records Management Program

DOE 1332.1A - Uniform Reporting System

DOE 2250.1C - Cost and Schedule Control Systems Criteria

DOE 4700.1 - Project Management System

Nuclear Material Planning:

National Environmental Policy Act of 1969, as Amended (42 USC 4241 et seq).

DOE 5630.1A - Control and Accountability of Nuclear Materials at Richland Operations Office

DOE 5660.1 - Management of Nuclear Materials

## REGULATORY KEY ISSUES:

None.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

This subactivity will not be impacted at the Target level.

## CONCERNS AT PLANNING LEVEL:

There are no concerns at the planning level.

## REQUIRED TECHNICAL DEVELOPMENT:

N/A.

ADS ID: 4110

ADS SUF: 0

SUB ACT: AA

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## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4110 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: K BASIN OPERATIONS

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

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LINE ITEM NO: TPC: TEC:

DESCRIPTION: K-BASINS OPERATIONS PROGRAM

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW3135040	TOTAL
CE 35EW31354	25061
TOTAL	568
DIRECT FTE	25629
	186

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3135040	26363	30577			28455	28455	31857	31342	26642
CE 35EW31354	500	568	568		568	568	568	568	568
TOTAL	26863	31145	568	28455	29023	32425	31911	27210	28332
DIRECT FTE	178	208	0	208	208	230	225	188	189

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3135040	26363	32934			32130	32130	31864	32351	28637
CE 35EW31354	500	568	568		568	568	568	568	568
TOTAL	26863	33502	568	32130	32699	32432	32919	29206	28599
DIRECT FTE	178	221	0	221	221	230	233	204	189

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

K Basin Continuity of Operations is necessary for maintaining and operating the existing irradiated fuel storage and support facilities at K Area, and for providing continued safe, environmentally sound, and cost effective management of the N Reactor fuel inventory.

The K Area Basins were constructed in the early 1950's with a twenty year design life. The basins were in service until 1971 when the reactors they supported were shutdown. Following modifications to allow storage of N Reactor fuel, the basins were placed back in service. K-East (KE) Basin began receiving open canisters of irradiated fuel in 1975. K-West (KW) Basin began receiving encapsulated canisters of irradiated fuel in 1981.

Current and outyear planning activities are intended to provide for continued safe storage of the irradiated fuel inventory in the KE and KW fuel storage basins. A primary assumption is that the existing fuel inventory of ~2100 Metric Tonnes Uranium (MTU'S) will continue to be stored within the K Area complex until plans for final disposition of these materials is implemented. Final disposition activities are estimated to be at least 20 years away.

Continuity of Operations consists of those activities which must be accomplished to:

Provide operator support for routine plant activities such as operation of plant pumps, motors, and equipment, valve adjustments, radioactive zone work monitoring, and obtaining environmental control samples.

Operate basin systems that are required by the OSR to maintain basin water quality.

Provide Industrial and Nuclear Safety support to ensure protection of plant, personnel, and the environment, and to ensure compliance with applicable requirements.

Provide operator shift coverage as required for, building patrol, surveillance of all operating equipment, and monitoring of all critical system conditions.

Perform scheduled maintenance activities required to maintain the basins and supporting facilities in a safe condition including performance of equipment repairs/modifications, surveillance inspections, and repair of deficiencies identified during the performance of scheduled surveillance procedure performance. All repairs shall be performed via approved work authorization packages.

Maintain a program for calibration control and recall of all measuring and test equipment. Provide periodic reports used for scheduling of calibrations and accountability of equipment.

Provide Engineering support for needed upgrades, resolution of system problems, and to ensure that systems and equipment currently in use are

operated as designed.

Provide Quality Assurance support for all K Area activities including review of purchase requisitions, work packages, and design modifications.

Provide support in the development of budgets, departmental planning, report generation, off-normal event investigations, WCT/OCT/QST tracking and reporting, personnel training programs, and other administrative assignments.

Receive, store and issue all material, parts, and equipment purchased for use in maintenance and modification of the K Basins and associated support facilities for minimum compliance operation. Control issuance and inventory accountability of all materials, parts, and equipment assigned to the K Basins warehouse facilities.

Maintain completed equipment surveillance, maintenance, and repair and/or modification records for work performed by approved surveillance procedures, work packages (J1) and pre-approved work requests (J3). Maintain detailed records for use in evaluating equipment operational history, reliability, repairs/replacements, and configuration changes.

Provide physical security from Hanford patrol for the K Basins and related K Area facilities.

Provide for the Safeguards and Security requirements to account for, track and record the special nuclear material (SNM) in storage at the K Basins facilities.

Continuity of Operations also includes allocations for K Area utilities including BPA electrical charges, electrical system maintenance, fire system maintenance, etc.

Waste handling consists of those activities required to characterize, package, and prepare for removal, hazardous, radiological, and mixed waste from K Area facilities. Included is funding for implementing waste minimization and zone reduction programs. Waste handling activities include:

Waste characterization and analysis consisting of sampling, packaging, and shipment of waste samples to appropriate laboratory facilities, obtaining analysis, and the return of the samples to their original waste containers. Proper analysis and characterization of generated waste is required to ensure designation and disposal in accordance with state and federal regulations, DOE Orders, Westinghouse Hanford Company policies, and to provide certification that all hazardous constituents have been identified, including radionuclides. Proper documentation and record keeping of sample data in a Quality Assurance auditable format is also required.

Segregation, treatment, certification, handling, storage, and shipment of radioactive waste from tanks, sumps, and other radiation areas. Radioactive waste handling will be in accordance with state and federal regulations, DOE Orders, and Westinghouse Hanford Company policies. This activity will provide craft support required for 90 day waste pad activities such as movement of materials, fabrication, painting and labeling of containers,

and handling containers for final disposal.

Waste disposal includes funding requirements for efforts by organizations other than K Basin Operations, which receive and bury or otherwise dispose of radioactive and hazardous materials packaged and shipped to them from K Area facilities. The wastes requiring disposal include wastes accumulated through normal compliance operations and KE Fuel Encapsulation activities. Waste disposal costs are allocated based on type, container size, weight, and volume. Special transportation costs are included.

#### RELATED ACTIVITIES NARRATIVE:

This activity is integrated with the other K Basin subactivities through the sharing of common management, administrative and operational resources.

#### KEY ASSUMPTIONS:

Existing irradiated fuel storage and support facilities will be maintained and operated in a continued safe, environmentally sound, and cost effective manner. K Basins and its support facilities will be maintained in compliance with applicable federal and state regulations as well as DOE Orders.

No new federal and state regulations or DOE Orders will effect the work scope or cost of maintaining the K Basins.

The level of effort under Continuity of Operations remains constant through the budget period. This work scope covers tasks such as maintaining surveillance and maintaining/repairing equipment as required.

#### ACTIVITY BY PRIORITY:

The workscope described in this TDD has been assigned a Priority 1 using the DOE-HQ four category system.

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

MISCELLANEOUS CAPITAL EQUIPMENT  
MISCELLANEOUS CAPITAL EQUIPMENT  
MISCELLANEOUS CAPITAL EQUIPMENT

#### TASKS COMPLETED TO DATE:

Tasks completed to date are ongoing activities which are described above in the "Technical Scope" and "Related Activities".



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

See "Technical Scope" for a description of activities to be performed in the current year.

Same as current year.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

Same as current year. Perform calculations and analyses for OSR/SAR rewrite.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

Same as current year. Perform OSR/SAR rewrite.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

Same as current year. Complete OSR/SAR rewrite in FY 1996.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Clean Water Act (PL 92-500, Section 102, Title III)

National Emission Standards for Radionuclides Emissions from DOE Facilities (40 CFR 61, Subpart H 61.01)

Occupational Safety and Health Act (29 USC 651), (29 CFR 1910), (in total)

Resource Recovery and Conservation Act of 1976 (42 USC 6901), (40 CFR 264), (40 CFR 261), (in total)

Safe Drinking Water Act (42 USC (F)), (40 CFR 141.11 Subpart B), (40 CFR 143.3), (CFR 141.11 Subpart B)

Toxic Substance Control Act (15 USC 2601, Section 6)

Dangerous Waste Regulations (Ch 173-303-010 WAC)

Hazardous Waste Management Act (Ch 70.105-007 RCW)

Model Toxic Control Act (Ch. 70.105 D RCW - Model Toxic Control Act Clean-up Regulations - Ch. 173-340 WAC), (in total)

National Pollution Discharge Elimination System Permit Program (Ch. 173-200 WAC), (173-220, 173-330)

Solid Waste Management Recovery and Recycling Act (Ch. 70.95 RCW) - Minimum Functional Standards for Solid Waste Handling (Ch. 173-304-010 WAC)

Washington Clean Air Act (Ch. 70.94.040 RCW) 173-480 WAC)

Washington Drinking Water Regulations

Washington Minimum Standards for Construction and Maintenance of Water Wells (Ch. 173-160 WAC), (in total)

Washington Standards for Protection Against Radiation (Ch. 246-221-040-060-070 WAC)

Washington Ambient Air Quality Standards and Emission Limits for Radionuclides (Ch. 173-480), (Ch. 246-241-040-060-070 WAC)

Water Quality Standards for Waters of the State of Washington (Ch. 173-201, 173-200-010 WAC)

RL 4330.2 - Water Treatment Plants and Distribution Systems (in total)

DOE 5400.1 - General Environmental Protection Program (in total)

DOE 5400.5 - Radiation Protection of the Public and the Environment (in total, esp. Ch. 5)

DOE 5480.1B - Environment, Safety, and Health Program for Department of Energy Operations (in total)

DOE 5480.4 - Environmental Protection, Safety, and Health Protection Standards (in total)

DOE 5480.7 - Fire Protection (in total)

DOE 5480.11 - Radiation Protection for Occupational Workers (in total)

DOE 5480.19 - Conduct of Operations Requirements for DOE Facilities (in total)

DOE 6430.1A - General Design Criteria (Sect. 1300, 1323, 1324, 1326; Div. 15 & 16)

10 CFR 20 - NRC Standards for Protection Against Radiation

10 CFR 20.106 - Radioactivity in Effluents to Unrestricted Areas

10 CFR 50 - Fire Protection for Nuclear Power Plants Operating Prior to Jan. 1, 1979

10 CFR 50 Appendix E - Emergency Planning and Preparedness for Production and Utilization Facilities (in total)

10 CFR 72 - Licensing Requirements for the Storage of Spent Fuel in an Independent Spent Fuel Storage Installation (in total)

REGULATORY KEY ISSUES:

None.

COMP/PROG BENEFITS AT PLANNING LEVEL:

The desired level of compliance with applicable state and federal regulations as well as DOE Orders will be in jeopardy at the Target funding level.

CONCERNS AT PLANNING LEVEL:

None.

REQUIRED TECHNICAL DEVELOPMENT:

N/A.





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OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4110 ADS SUF: 0 SUBACTIVITY: AC

SUBACTIVITY TITLE: LIFE EXTENSION COMPLIANCE MODIFICATIONS

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: K-BASINS OPERATIONS PROGRAM

DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW3135040	TOTAL
TOTAL	6196
DIRECT FTE	6196
	56

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW3135040	10436	13340		8364	8364	0	0	0	0
TOTAL	10436	13340	0	8364	8364	0	0	0	0
DIRECT FTE	50	74	0	59	59	0	0	0	0

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW3135040	10436	13690		8364	8364	490	489	504	0
TOTAL	10436	13690	0	8364	8364	490	489	504	0
DIRECT FTE	50	75	0	59	59	0	0	0	0

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

Life Extension Compliance Modifications provide a path to support continued safe storage of the irradiated nuclear fuel inventory. The two underwater fuel storage facilities at 100K Area are well beyond design life. Design life was originally 20 years for these basins. They were constructed in 1953 and 1955 and were in use until the 1970-1971 time frame. The basins were reopened in 1975 (KE) and 1981 (KW) for storage of irradiated N Reactor fuel.

Life Extension Compliance Modifications include encapsulation of fuel currently stored in open canisters at K-East (KE) Storage Basin. This activity includes support equipment and materials, generation of safety and environmental documentation to support related activities, and the performance of interim fuel storage studies associated with requirements for continued safe storage of the irradiated nuclear fuel inventory stored in the K Basins. An Environmental Impact Statement is being written to determine the disposition of the fuel when it is moved from the K Basins. Possible disposition implementation ranges from 8 to 20 years. Interim fuel storage studies will identify required modifications and provide a basis for requesting outyear funding to support required actions.

Repackaging of the MK I (aluminum) canisters at the K-West (KW) Storage Basin is needed due to a potential loss of canister integrity. Failure to fund this repackaging would result in continued canister degradation. ANSI 57.7 (1988) requires that a primary boundary be in place between stored irradiated fuel and the cooling water in the basin. Known fuel cladding damage would result in violation of this standard if canister integrity is compromised.

MK II Repackaging at KW Storage Basin is required due to the recently identified failure of the MK II locking bars. Approximately 17% of the locking bars have already failed. This results in a loss of seal for these canisters and could also violate ANSI Standard 57.7 (1988).

KE Basin Sludge Containerization engineering study is being performed. Existing methods of sludge containment are being studied. The KE Basin sludge is a major contributor to the source term at KE Basin and must be encapsulated.

Broken fuel represents a breach of primary fission product containment at KE Basin (where fuel is not encapsulated). DOE Tiger Team made this finding part of their assessment. The Tiger Team finding resolution is to encapsulate all fuel in KE Basin. The KE Fuel Encapsulation pre-start activities are continuing. Upon receipt of the DOE Operational Readiness Evaluation (ORE) KE Fuel Encapsulation will start.

A leak potential has been detected in the KE Basin. Approximately 25 gallons per hour is being lost after allowing for the evaporation rate. Leak detection equipment is now being utilized to identify the exact location of the leak. Leak repair method or schedule have not been identified at this time.

## RELATED ACTIVITIES NARRATIVE:

This activity is integrated with other K Basin subactivities through the sharing of common management, administration and operational resources.

## KEY ASSUMPTIONS:

Existing irradiated fuel storage basins at 100K Area will be maintained and operated in a continued safe, regulatory compliant, environmentally sound, and cost effective manner.

Funding level for KE Fuel Encapsulation in FY 1994 and FY 1995 assumes operations personnel receive approval to exceed the multi-tiered Administrative Control Levels for personnel radiation exposure as specified in the Hanford Site Radiological Control Manual (HSR WHC-CM-1-6). If exposure approvals for operations personnel are not received the work cannot be accomplished at the current target level.

There will not be any new federal and state regulations or DOE Orders which will require further modification to the K Basins.

## ACTIVITY BY PRIORITY:

The workscope described in this TDD has been assigned a Priority 1 using the DOE-HQ four category system.

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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## TASKS COMPLETED TO DATE:

The KE encapsulation equipment has been fabricated and the Environmental Assessment has been approved by DOE-HQ.

A study was completed to determine the cause of the locking bar failure on MK II Canisters and redesign of the MK II canisters is complete. MK II canister lids are successfully being reworked at the 200 Area Fabrication Shops.

K Area Water Plant, N-027, was validated as an FY 1994 line item. The line item was not funded for FY 1994 and is not in the target level in FY 1995.

ADS ID: 4110

ADS SUF: 0

SUB ACT: AC

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## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4110-00-0090	DETERMINE REROOF STRATEGY 105KE/KW RE-ROOF	12/17/93	12/17/93
4110-00-0095	COMPLETE PROCURMENT SPECIFICATION 105 KE/KW RE-ROOF	6/15/94	6/15/94
4110-00-0015	COMPLETE RE-ROOF 1717K BUILDING	9/30/94	9/30/94

## CURRENT YEAR (FY 1994) TASK NARRATIVE:

Complete installation of KE Encapsulation equipment. (A 'Notice of Violation' was received from the Washington Department of Health (WDOH) February 2, 1993 and all pre-encapsulation work was put on hold.) Air permitting issues are being negotiated with WDOH and the forecast restart date is 11/30/93 assuming receipt of the Air Permit by 6/30/93 and approval of the request for restart.

A potential leak in KE Basin has been detected. Once the air permitting issues are resolved, leak detection equipment will be installed in the basin. All options to repair the leak are being studied. Repair of the leak assumes funding is available.

Complete the rework of existing MK II canister lids to support KE Encapsulation. Procure future orders of MK II canister lids based upon redesign criteria for canister lids.

Continue K Basin Life Extension studies to resolve seismic issues, Security Upgrades, and Fire Protection Upgrades.

Inspect all K Area Facilities roofs and repair any deficiencies.

Study methods of containerizing KE Basin sludge.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4110-00-0105	COMPLETE ROOF CONSTRUCTION AND DOC. CLOSOUT 105KE/KW ROOF REPAIR	12/31/94	12/31/94

## BUDGET YEAR (FY 1995) TASK NARRATIVE:

Initiate KE Fuel Encapsulation.

Target level funding will not allow an engineering study for MK II Canister repackaging equipment and discharge chute containment system in KW Storage Basin, as reflected in the planning level.

Target level funding will not allow starting development of sludge containerization equipment at KE Basin, as included in the planning level.

KE/KW Life Extension Project, N-032, will be delayed two years at the current target level. Environmental concerns with the loss of basin water

from the Design Basis Earthquake (DBE) at the construction joint between the reactor buildings and the basins remain if safety enhancements are not provided. Lack of qualified seismic joints between the K Reactors and basins precludes meeting current DOE 6430.1A criteria. Cost of security system maintenance will continue to rise without Security System Upgrades and facility security requirements for the protection of irradiated N Reactor Fuel cannot be assured. Project N-037 is also required to address the K Area Fire Protection Survey/Evaluation findings of different buildings which do not meet DOE 5480.7 and NFPA-101.72, 80A, 10, 24, requirements as well as other various safety concerns.

Revalidate the K Basin Water Plant, N-027, as an FY 1996 line item.

Continue locking bar resolution activities.

#### FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4110-00-0030	COMPLETE KE BASIN FUEL ENCAPSULATION	6/30/96	6/30/96

PLANNING YEAR (FY 1996) TASK NARRATIVE:  
Continue KE Fuel Encapsulation project.

Target level will not allow development of repackaging equipment and discharge chute containment system for MK II Canisters Repackaging in KW Basin.

Target level funding will not allow development of KE Basin sludge containment system.

Coating KE Basin walls with a sealant, similar to KW Basin, then raising the water level in KE Basin to reduce exposure to personnel is included at the planning level. This activity is delayed to FY 1996 at the target level.

#### FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4110-00-0040	COMPLETE KE BASIN SLUDGE CLEANUP	12/31/98	12/31/98

OUTYEAR (FY 1997-2000) TASK NARRATIVE:  
Complete KE Fuel Encapsulation in FY 1996.

Coating KE Basin walls with a sealant and raising the water level is completed in FY 1996 in the target level after the KE Encapsulation project is complete. This activity will reduce personnel radiation exposure at KE Basin and could reduce personnel required to complete the KE Encapsulation task. The planning level has this task completed in FY 1995.

In the planning case KE Basin Sludge Containerization program starts in FY



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1996 utilizing most of the Encapsulation personnel and complete sludge containerization 2/98. At the target level this program starts in FY 1999 requiring new employees, and is completed in FY 2001.

The MK II Repackaging program starts in FY 1996 and is completed at the end of the fiscal year in the planning case. In the target case equipment development starts in FY 1998 and the project is completed in FY 2000.

In the planning case once the MK II Repackaging program is completed, the MK I Repackaging Program starts. Encapsulation personnel will be utilized to support these activities and MK I Repackaging Program will be completed in FY 1997 at planning level. In the target case MK I Canister Repackaging is unfunded throughout the planning period.

Funding for the Extended Fuel Storage Study is not available in the target case. This activity is to characterize the existing irradiated fuel inventory to determine fuel corrosion and cladding integrity to support wet or dry long-term storage of both fuel and sludge materials. In the planning case the Extended Fuel Storage Study is funded from FY 1995 through FY 1999.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Failure to comply with the regulatory drivers identified could result in significant liability for DOE and/or WHC.

Hanford Federal Facilities Agreement and Consent Order, May 1989, as Amended Para. 6, Art. II, Para 10, Art. III (in total)

National Environmental Policy Act of 1969, as Amended (42 U.S.C. 4341 et seq, Sect. 102 (A-C), (E-H), Fed. Register Vol. 52-240, Dec. 15, 1987)

10 CFR 1021 - (Proposed) NEPA Implementation Policy (in total)

Physical Protection of Unclassified Irradiated Reactor Fuel in Transit (in total)

DOE 5480.3 - Safety Requirements for the Packaging and Transportation of Hazardous Materials, Hazardous Substances, and Hazardous Wastes (in total)

DOE 5480.11 - Radiation Protection of Occupational Workers (in total)

DOE 5480.19 - Conduct of Operations Requirements for DOE Facilities (in total)

RL 5440.1A - Environment, Safety, and Health Program for Department of Energy Operations for Richland Operations (in total)

DOE 5440.1D - National Environmental Policy Act Compliance Program (in total)

RL 5700.1A - Quality Assurance (in total)

DOE 5700.6C - Quality Assurance (in total)

DOE 5700.7B - Work Authorization System (in total)

DOE 6430.1A - General Design Criteria (Sect. 1300, 1323, 1324, 1326; Div. 15&16)

SEN-15-90 - National Environmental Policy Act (in total)

10 CFR 72 - Licensing Requirements for the Storage of Spent Fuel in an Independent Spent Fuel Storage Installation (in total)

## REGULATORY KEY ISSUES:

None.

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**COMP/PROG BENEFITS AT PLANNING LEVEL:**

Coating of KE Basin walls and raising the water level will lower the exposure to personnel at KE Basin. At the planning level this task is completed in FY 1995 while KE Encapsulation is still in progress. This task will save personnel radiation exposure.

Repackaging of MK I (aluminum) canisters could be performed at the planning level, which could prevent canister degradation. Failure to fund this project could result in a violation of ANSI 57.7 (1988) which requires a primary boundary between stored irradiated fuel and basin cooling water.

Repackaging of MK II canisters will be delayed from a FY 1996 completion date in the planning case to FY 2000 completion at the target level. The failed locking bars can result in a loss of seal for these canisters and will also violate ANSI 57.7 (1988).

KE Basin Sludge Containerization completion will also be delayed at the target level from FY 1998 to FY 2001. The source term at KE Basin will not be contained after KE Encapsulation is complete. This will impact both radiation and contamination levels in KE Basin.

Funding for the Extended Fuel Storage Study is not available in the target case. This activity is to characterize the existing irradiated fuel inventory to determine fuel corrosion and cladding integrity to support wet or dry long-term storage of both fuel and sludge materials. In the planning case the Extended Fuel Storage Study is funded from FY 1995 through FY 1999.

**CONCERNS AT PLANNING LEVEL:**

None

**REQUIRED TECHNICAL DEVELOPMENT:**

Develop sludge containerization equipment and KW Basin discharge chute containment system.

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OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4110 ADS SUF: 0 SUBACTIVITY: AD

SUBACTIVITY TITLE: K BASIN REGULATORY RESPONSE

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: . VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: K-BASINS OPERATIONS PROGRAM

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW3135040	TOTAL
	4592
TOTAL	4592
DIRECT FTE	34

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3135040	4298	5689	1430	4201	5631	4322	4390	4691	4542
TOTAL	4298	5689	1430	4201	5631	4322	4390	4691	4542
DIRECT FTE	27	35	2	33	35	33	33	33	33

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3135040	4298	6172	1691	4201	5892	4535	4610	4917	4774
TOTAL	4298	6172	1691	4201	5892	4535	4610	4917	4774
DIRECT FTE	27	37	4	33	37	33	33	33	33

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

Regulatory Response includes those activities which respond to specific environmental regulatory drivers. These include DOE Orders (e.g., 5400.1 and 5400.5), Resource Conservation Recovery Act (RCRA), Superfund Amendments and Re-authorization Act (SARA), National Emission Standards for Hazardous Air Pollutants (NESHAPS), National Pollutant Discharge Elimination System (NPDES), Tri-Party Agreement (TPA), Washington State Radioactive Air Emission Regulation (WAC-246/247), National Environmental Policy Act (NEPA), etc.

Response to these regulatory drivers is defined by six supporting work packages: Program Management, Environmental Oversight, Environmental Documentation, Effluent Sampling and Monitoring, Compliance Modifications and Site Environmental Surveillance.

Program Management provides overall coordination, planning, scheduling, resource definition, and performance assessment for all elements of the Regulatory Response activity. It includes facility compliance assessments, planning and corrective actions, reporting (TPA quarterly), preparing technical reports, (e.g., waste stream characterization reports) and intra-program coordination within WHC. The purpose of this task is to provide an orderly and systematic manner of addressing various environmental regulatory drivers with consideration for facility status.

Environmental Oversight provides for the independent monitoring and surveillance of K Basin facilities and activities including NPDES reporting and oversight.

Environmental Documentation activities provides for the preparation, review, and approval of a RCRA Part A Withdrawal petition in relation to the 1706 KE Waste Treatment System in response to TPA milestone M-20-45. This work package also includes the preparation of state and federal air emission permits, BARCT analyses, Air Emissions Inventory per the CAA, NEPA documentation, etc.

K Basin Effluent Sampling and Monitoring provides for the implementation of Facility Effluent Monitoring Plans (FEMPs) for K Basin facilities. This activity involves the work required to implement the FEMPS in facility operating procedures, periodic program reviews and updates based on changes in originating documents. Specific tasks include: Effluent sampling and analysis, data validation, analysis, reporting and comparison to process standards.

Compliance Modifications provides for modifications to facility hardware or software in order to maintain or achieve effluent monitoring compliance with DOE Orders and state and federal regulations. Known modifications include: design and construction of air sampling and monitoring system upgrades as well as liquid sampling and monitoring system upgrades for K Basin facilities including ambient air quality.

K Basin Environmental Surveillance provides for the overall performance of the near field environmental surveillance of the flora, fauna, and aquatic

ecosystems at 100 K Area facilities.

RELATED ACTIVITIES NARRATIVE:

This activity is integrated with other K Basin subactivities through the sharing of common management, administration and operational resources.

KEY ASSUMPTIONS:

Only response actions to current regulations are included. No allowance for draft of yet to be identified regulations are included.

RCRA Closure Plans are prepared based on current DOE-RL and WHC standard format.

Analytical laboratory capability is available onsite or off-site to analyze samples in a timely manner.

Ecology accepts the petition withdrawal of the RCRA Part A Permit for the 1706 KE Waste Treatment System.

ACTIVITY BY PRIORITY:

The workscope described in this TDD has been assigned a Priority 2 using the DOE-HQ four category system.

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

Program Management has provided overall coordination, planning, scheduling, resource definition, and performance assessment for all elements of the Regulatory Response activity. It includes facility compliance assessments, planning and corrective actions, reporting (TPA quarterly), preparing technical reports, (e.g., waste stream characterization reports) and intra-program coordination within WHC.

Environmental Oversight provided independent monitoring and surveillance of K Basin facilities and activities including NPDES reporting and oversight.

Environmental Documentation activities to date include: (1) the submittal of a RCRA Part A Permit withdrawal petition for the 1706KE Waste Treatment System and ensuing sampling and analysis activities, (2) submittal of a Notice of Construction to WDOH for KE Encapsulation, (3) preparation of an EA for KE Encapsulation, (4) preparation of a best available radionuclide control technology assessment for 105KE air emissions.

K Basin Effluent Sampling and Monitoring tasks to date include preparation of a K Basin FEMP and routine sampling and analysis of facility airborne and liquid effluents.

Facility Compliance Modifications to date include the purchase of airborne monitors and analyzers for tritium and nobel gases.

Site Environmental Surveillance tasks included the environmental surveillance of the flora, fauna, and aquatic ecosystems at the 100 K Area.



# SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4110-00-0115	SUBMIT K BASIN ORDER COMPLIANCE REQUEST FOR APPROVALS	3/05/94	3/05/94
4110-00-0110	COMPLETE K BASINS NORTH LOAD-OUT PIT ACTIONS	5/31/94	5/31/94
4110-00-0065	SUBMIT ENGIN. STUDY FOR TEMP. STORAGE OF KE CAPSULES IN KW BASIN	9/30/94	9/30/94

## CURRENT YEAR (FY 1994) TASK NARRATIVE:

Program Management activities continue (See "Tasks Completed to Date" narrative).

Environmental Oversight continues independent monitoring and surveillance of K Basin facilities and activities including NPDES reporting and oversight.

Environmental Documentation actions involve: (1) responding to any further comments (NOD's) from Ecology on the RCRA Part A Permit withdrawal petition for the 1706KE Waste Treatment System, (2) preparation of a NOC to WDOE for Encapsulation, (3) preparation of a best available radionuclide control technology assessment for airborne emissions.

Effluent Sampling and Monitoring tasks continue (See "Tasks Completed to Date" narrative).

Facility Compliance Modifications planned in FY 1993 include the design and construction of facility airborne and liquid effluent monitoring system upgrades per the FEMP.

Site Environmental Surveillance tasks continue (See "Tasks Completed to Date" narrative).

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4110-00-0070	SUBMIT SCHED FOR FINAL DISPOSITION OF KE BASIN CONTAMINATED WATER	10/31/94	10/31/94
4110-00-0075	SUBMIT SCHED FOR FUEL AND SLUDGE ENCAP AND CONTAM WATER REMOVAL	3/30/95	3/30/95

## BUDGET YEAR (FY 1995) TASK NARRATIVE:

Program Management activities continue (See "Tasks Completed to Date" narrative).

Environmental Oversight continues independent monitoring and surveillance of K Basin facilities and activities including NPDES reporting and oversight.

Known RCRA Permits and Closures actions are complete. Permitting and regulatory response actions pursuant to CAA amendments requiring an Air

Emission Inventory, and permitting of Encapsulation activities at 105KE and 105KW.

Effluent Sampling and Monitoring tasks continue (See "Tasks Completed to Date" narrative).

Facility Compliance Modifications planned in FY 1994 include continued design and construction of facility airborne and liquid effluent monitoring system upgrades per the FEMP.

Site Environmental Surveillance tasks continue (See "Tasks Completed to Date" narrative).

FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4110-00-0025	COMPLETE OSR/SAR REWRITE	9/30/96	9/30/96

PLANNING YEAR (FY 1996) TASK NARRATIVE:

Program Management activities continue (See "Tasks Completed to Date" narrative).

Environmental Oversight continues independent monitoring and surveillance of K Basin facilities and activities including NPDES reporting and oversight.

Known RCRA Permits and Closures actions are complete. Permitting and regulatory response actions pursuant to CAA amendments requiring an Air Emission Inventory, and permitting of Encapsulation activities at 105KE and 105KW.

Effluent Sampling and Monitoring tasks continue (See "Tasks Completed to Date" narrative).

Facility Compliance Modifications planned in FY 1995 include continued design and construction of airborne and liquid effluent monitoring system upgrades per the facility effluent monitoring plan.

Site Environmental Surveillance tasks continue (See "Tasks Completed to Date" narrative).

FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

Program Management activities continue (See "Tasks Completed to Date" narrative).

Environmental Oversight continues independent monitoring and surveillance of K Basin facilities and activities including NPDES reporting and

oversight.

Known RCRA Permits and Closures actions are complete. Permitting and regulatory response actions pursuant to CA amendments, Washington State Radioactive Air Emissions regulations will continue.

Effluent Sampling and Monitoring tasks continue (See "Tasks Completed to Date" narrative).

Facility Compliance Modifications include completion of construction of airborne and liquid effluent monitoring system upgrades per the facility effluent monitoring plan.

Site Environmental Surveillance tasks continue (See "Tasks Completed to Date" narrative).

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Hanford Federal Facilities Agreement And Consent Order, May 1989, As Amended, Section 6.3 (Milestone M-20-45)

Liquid Effluent Consent Order (in total)

National Environmental Policy Act Of 1969, As Amended 42 USC 4321 et seq (in total)

10 CFR 1021 - National Environmental Policy Act Implementing Procedures (in total)

Toxic Substance Control Act

Resource Conservation And Recovery Act (42 USC 6901), (40 CFR 264-40 CFR 261)

Occupational Safety And Health Act (29 USC 651, 29 CFR 1910)

National Emission Standards For Radionuclides Emissions From DOE Facilities (40 CFR 61 Subpart H)

Clean Air Act

Clean Water Act (PL 92-500)

Model Toxics Control Act (CH 70.105 D RCW)

Model Toxics Control Act clean-up Regulations - CH 173-340 WAC

Dangerous Waste Regulations (CH 173-303 WAC)

Hazardous Waste Management Act (CH 70.105 RCW)

Solid Waste Management Recovery And Recycling Act (CH 70.95 RCW)

Minimum Functional Standards For Solid Waste Handling (CH 173-304 WAC)

Washington Standards For Protection Against Radiation (CH 173-480 WAC)

National Pollution Discharge Elimination System Permit Program (CH 173-220 WAC, 40 CFR 122)

Water Quality Standards For Waters Of The State Of Washington (CH 173-201 WAC)

Washington Clean Air Act (CH 70.94 RCW), (WAC 173-480), (WAC 246/247)

DOE 5400.1 - General Environmental Protection Program

DOE 5400.3 - Hazardous And Radioactive Mixed Waste Program

DOE 5400.4 - Comprehensive Environmental Response, Compensation, and Liability Act Requirements

DOE 5400.5 - Radiation Protection Of The Public And The Environment

DOE 5440.1D - National Environmental Policy Act Compliance Program

DOE 5480.1B - Environment, Safety, And Health Program For Department of Energy Operations

DOE 5480.19 - Conduct of Operations for DOE Facilities

DOE 5480.3 - Safety Requirements For The Packaging And Transportation of Hazardous Materials, Hazardous Substances, And Hazardous Wastes

DOE 5480.4 - Environmental Protection, Safety, And Health Protection Standards

RL 5480.4B - Environmental Protection, Safety, And Health Protection Standards For RL

DOE 5480.11 - Radiation Protection Of Occupational Workers

DOE 5484.1 - Environmental Protection, Safety, And Health Protection Information Reporting Requirements

DOE 5820.2A - Radioactive Waste Management

DOE 6430.A - General Design Criteria

10 CFR 20 - Standards for Protection Against Radiation

#### REGULATORY KEY ISSUES:

Federal and state promulgated regulations have caused an increase in work scope directed at radioactive airborne emissions as demonstrated by the CAA amendments, Washington State Radioactive Airborne Emission regulations. This scope of work can not be fulfilled at the Target Funding Level.

#### COMP/PROG BENEFITS AT PLANNING LEVEL:

Funding for ongoing Effluent Sampling and Monitoring at 100 K Area facilities will be in compliance with EPA regulations, DOE Orders, and state regulations. This also includes funding for the completion of the construction of airborne and liquid effluent monitoring system upgrades. No interruption to operational activities caused by non-compliant conditions is expected.

#### CONCERNS AT PLANNING LEVEL:

All known funding requirements are included under the Planning Level.

REQUIRED TECHNICAL DEVELOPMENT:  
N/A.

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4110 ADS SUF: 0 SUBACTIVITY: AE

SUBACTIVITY TITLE: SPENT FUEL PROGRAMS

INSTALLATION: HANFORD

CATEGORY: WM

DEFENSE/NON-DEFENSE:

VERSION DATE: 5/12/93

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: K-BASINS OPERATIONS PROGRAM

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW3135040	TOTAL
	16070
TOTAL	16070
DIRECT FTE	78

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3135040	0	7914			18800	18800	21785	14860	18470
LI 39EW31354	0	0			0	0	10000	64000	143000
TOTAL	0	7914	0	18800	18800	31785	78860	161470	37580
DIRECT FTE	0	83	0	102	102	115	115	115	115

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3135040	0	19714			20900	20900	21785	14860	18470
LI 39EW31354	0	0			6000	6000	10000	64000	143000
TOTAL	0	19714	0	26900	26900	31785	78860	161470	37580
DIRECT FTE	0	115	0	115	115	115	115	115	115

SCOPE INFORMATION  
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## TECHNICAL SCOPE NARRATIVE:

The K Area reactor facilities, of which the irradiated fuel storage basins are a part, were completed in the 1950's and had a 20 year design life. As a result, the facilities are currently 20 years beyond design life. Irradiated N Reactor fuel is currently stored in fuel canisters on racks in the KE and KW fuel storage basins until it can be dispositioned for long term storage. The fuel stored in these canisters is irradiated, Zircaloy-2 clad, uranium metal. The fuel ranges 6 to 21 years in age from the reactor, roughly 330 metric tonnes of the fuel is weapons grade.

A dynamic seismic analysis is being performed in response to a DOE-RL surveillance. A DOE-RL surveillance in 1990 identified the following potential concerns with the KE/KW basins:

The construction joints in the fuel discharge/pickup chute area of the KE/KW basins do not contain reinforcing steel.

No rattle space (i.e., clearance between concrete surfaces) is evident between the KE/KW basins and the adjacent process buildings (reactor buildings).

DOE further announced on October 16, 1990 that it no longer needed to recover plutonium at the PUREX plant for defense purposes. An Environmental Impact Statement (EIS) is to be prepared to assess long-term retrievable storage alternatives for the irradiated fuel. Storage of the irradiated N Reactor fuel in the K Area basins must continue up to 20 years until decisions of the EIS are fully implemented and before all of the irradiated N Reactor fuel and sludge is removed from the basins. Seismic upgrades to the existing facility are required for continued storage of the irradiated N Reactor fuel.

The basin security systems were installed in 1978 and have reached their design life. The maintenance of the security system has become increasingly difficult and costly due to the unavailability of spare parts and the age of the security system components. System design limitations will not permit material or equipment substitution. Sub-projects will be implemented to assure facility life extension.

An evaluation of fire protection systems for K Area buildings against the requirements of DOE Order 5480.7 revealed several deficiencies. According to the evaluation results, the property loss potential due to a fire in the 165/190KE buildings (where spare parts are stored) exceeds \$1.0M. No automatic fire suppression systems are installed in the 165/190KE buildings. Additionally, the fuel storage basins at 105KW and 105KE are not equipped with automatic fire suppression systems where property loss due to fire could exceed \$10.0M accompanied by possible release of on-site contamination. Other deficiencies addressed by this evaluation include various fire exposure hazards to 100K Area buildings and fire alarm system deficiencies.



The lack of adequate fire protection in 100K Area buildings may impact the long term fuel storage mission planned for the K Basins. The major deficiencies identified by the fire protection evaluation will be studied to determine the actions necessary for resolution.

#### RELATED ACTIVITIES NARRATIVE:

Project N-027 provides a water distribution system sized to current and projected water usage requirements for an additional 20 years. (ADS 4110-1)

Project E-021 (formerly Project N-028) provides air cooled chillers for 105KE/105KW basins. (FY 1993 GPP)

The K Area roof repair program provides repairs for the 105KE/105KW failed panels, determine material properties of asbestos cement panels by testing, and provides a new roof covering over the 105KE/105KW Basins, fuel transfer areas, and office areas.

Continuity of Operations, and K Basin Upgrades subactivities.

#### KEY ASSUMPTIONS:

Irradiated N Reactor Fuel and Single Pass Reactor (SPR) fuel and sludge will remain in the K Basins for 20 years.

Expense change requests are approved for line item support funding in FY 1994 and FY 1995.

#### ACTIVITY BY PRIORITY:

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

105KE/105KW Irradiated Fuel Storage Basins Concrete and Reinforcing Bar Characterization Interim Report (WHC-SD-NR-SA-023) completed.

105KW Concrete Cover Inspection (WHC-SD-NR-PTR-001) completed.

Examination of Concrete Cores from the 100KW Sedimentation Basin, (WHC-SD-NR-VI-003) completed.

105KE/105KW Irradiated Fuel Storage Basin Phase I seismic analysis (WHC-SD-

NR-SA-024) of Phase I seismic analysis has been completed. (Phase I qualifies concrete fuel storage basin.)

Facility Life Extension Assessment (WHC-SD-NR-FLE-001) has been completed.

DOE 6430.1A checklist (WHC-SD-NR-DA-018) has been issued for WHC review.

N Reactor Spent Fuel Compacted Storage Criticality Calculations (WHC-SD-NR-CSA-004) has been completed.

Irradiated N Reactor Fuel consolidated Storage Shielding Calculations (WHC-SD-NR-ER-090) has been completed.

Physical Security Upgrades engineering study (WHC-SD-3-N030-ES-001) issued for review. Comments provided.

N Reactor Facility Roof Repair Program Management Plan (WHC-SP-0868, Rev. 1) has been completed.

105KE/105KW Irradiated Fuel Basins, Phase II & III Seismic Analyses (WHC-SD-N031-SA-001, WHC-SD-N031-SA-002, WHC-SD-N031-SA-003) has been issued for review. (Phase II analyses investigates KW roof addition; Phase III investigates 3/1 concerns of reactor building/superstructures & reactor stack.)

DOE Order 5480.7 Requirement and Self Assessment Database (RSAD) has been completed.

Criticality Safety Evaluation of Irradiated N Reactor Fuel MK IA and MK IV Fuel (WHC-SD-NR-CSER-009) has been issued for approval.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

Approve the engineering study for the 105KE/105KW Basin Security System Upgrades (Project N-030).

Issue a functional design criteria for Project N-030.

Initiate the preparation of a conceptual design report for Project N-030.

Issue 105KE/105KW Phase II and Phase III dynamic seismic analyses. Phase II dynamic seismic analysis includes the superstructure east/west of basin, 105KW roof addition, and discharge/pickup chute concrete fill optimal design. Phase III dynamic seismic analysis resolves 3/1 issues of reactor stack, reactor building (concrete portion up to 70' elevation), and high rise steel structure (upper portion of reactor building).

Issue and independent review of Phase II and III seismic analyses.

Issue an engineering study for Project N-031. Issue a functional design criteria for Project N-031.

Initiate the preparation of a conceptual design report for Project N-031.

Initiate Project N-032 (Facility Life Extension) NEPA documentation activities. Project N-032 validation includes Projects N-030, N-031, and N-037.

Issue an engineering study for project N-037, 100K Fire Protection Upgrades. Initiate the preparation of a functional design criteria for Project N-037. Initiate the preparation of a conceptual design report for Project N-037.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4110-00-0020	COMPLETE CONCEPTUAL DESIGN OF INTERIM STORAGE FACILITY	4/30/95	4/30/95

## BUDGET YEAR (FY 1995) TASK NARRATIVE:

Issue and complete conceptual design reports and safety evaluations for Projects N-030, N-031, and N-037. Issue and approve environmental assessments for Projects N-030, N-031, and N-037. Approve the functional design criteria for Projects N-030, N-031, and N-037.

Current target case excludes funding for conceptual design activities for the Budget Year. This funding was not included as part of the OMB passbacks.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4110-00-0035	DEMONSTRATE INTERIM STORAGE TECHNOLOGY	9/30/96	9/30/96

## PLANNING YEAR (FY 1996) TASK NARRATIVE:

Prepare Project Management Plans for Projects N-030, N-031, and N-037.

Current target case excludes funding for preparing management plans in the Planning Year.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

FY 96 - Prepare statements of work for the initiation of definitive design; prepare and approve procurement specifications for nuclear divers; conduct definitive design reviews for Projects N-030, N-031, and N-037.

FY 97 - Complete definitive design for Projects N-030, N-031, and N-037; place nuclear diving contract; start construction for projects N-030, N-031, and N-037.

FY 98 - Complete project N-037 construction; continue projects N-030 and N-031 construction.

FY 99 - Complete projects N-030 and N-031 construction; complete project N-030 acceptance test and readiness checklists; complete project N-031 close out activities.

Complete Project N-031 readiness reviews. Complete Project N-030, N-031, and N-037 close out activities.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

DOE 5632.2A Physical Protection of Special Nuclear Material and Vital Equipment (Section 10.A,B)

DOE 5633.3, Control and Accountability of Nuclear Materials (Ch 1, Sect. 3.G and Ch. 2 (in total))

DOE 5481.1B, Safety Analysis and Review System (in total)

DOE 6430.1A, General Design Criteria (Sect. 1300, 1323, 1324, 1326, Div. 15 & 16)

UCRL 15910, Design and Evaluation Guidelines for Department of Energy Facilities Subjected to natural Phenomena Hazards (in total)

National Emission Standards For Radionuclides Emissions From DOE Facilities (40 CFR 261 Subpart H 61.01)

Occupational Safety And Health Act (29 USC 651) (29 CFR 1910) (in total)

Resource Recovery And Health Act of 1976 (42 USC 6901), (40 CFR 264), and (40 CFR 261), (in total)

Toxic Substance Control Act (15 USC 2601 Section 6)

Dangerous Waste Regulations (Ch 173-303-010 WAC)

Hazardous Waste Management Act (Ch 70.105-007 RCW)

Model Toxic Control Act (Ch. 70.105 D RCW - Model Toxic Control Act Clean-up Regulations - Ch. 173-340 WAC), (in total)

National Pollution Discharge Elimination System Permit Program (Ch. 173-200, 173-220, 173-330 WAC)

Solid Waste Management Recovery And Recycling Act (Ch. 70.95 RCW) - Minimum Functional Standards For Solid Waste Handling (Ch. 173-304-010 WAC)

Washington Clean Air Act (Ch. 70.94.040 RCW) 173-480 WAC

Washington Standards For Protection Against Radiation (Ch. 246-221-040-060-070 WAC)

Washington Ambient Air Quality Standards And Emission Limits For Radionuclides (Ch. 173-480, 246-221-040-060-070)

DOE 5400.1 - General Environmental Protection Program (in total)

DOE 5400.5 - Radiation Protection Of The Public And The Environment (in total, esp. Ch. 5)

DOE 5480.4 - Environmental Protection, Safety, And Health Protection

Standards (in total)

DOE 5480.7 - Fire Protection

DOE 5480.11 - Radiation Protection For Occupational Workers (in total)

DOE 5480.19 - Conduct of Operations Requirements for DOE Facilities (in total)

RL 5440.10 - Environment, Safety, and Health Program for Department of Energy Operations for Richland Operations (in total)

RLIP 5480.7 Fire Protection

SEN 15-90 National Environmental Policy Act (in total)

NRC Standards For Protection Against Radiation (10 CFR 20.101, 103, 105, 106).

10 CFR 20. 196 - Radioactivity In Effluents To Unrestricted Areas (in total)

10 CFR 50 Appendix E - Emergency Planning And Preparedness For Production And Utilization Facilities (in total)

10 CFR 72 - Licensing Requirements For The Storage Of Spent Fuel In An Independent Spent Fuel Storage Installation (in total)

#### REGULATORY KEY ISSUES:

Lack of qualified seismic joints between the K Basin Reactors and basins precludes meeting current DOE 6430.1A criteria.

NOTE: WHC-SD-NR-SA-024 seismically qualified the 105-KE/105-KW basins subject to the completion of the recommended upgrades identified. The seismic joint is resolved by the placement of concrete/grout in the discharge chute.

#### COMP/PROG BENEFITS AT PLANNING LEVEL:

Environmental concerns with the loss of basin water from a Design Basis Earthquake (DBE) at the construction joint between the reactor buildings and the basins remain if safety enhancements are not provided. Costs of security system maintenance will continue to rise and facility security requirements for the protection of irradiated N Reactor fuel cannot be assured.

Fire protection deficiencies identified at various 100K Area buildings, including facilities housing the K Basin, are DOE Order 5480.7 compliance issues. Resolution of these deficiencies as they relate to the long term fuel storage mission of these facilities is required.

CONCERNS AT PLANNING LEVEL:  
None.

REQUIRED TECHNICAL DEVELOPMENT:  
N/A

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E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4190 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: PROGRAM MANAGEMENT

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

COST INFORMATION:

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LINE ITEM NO: TPC: TEC:

DESCRIPTION: OTHER FORMER PRODUCTION FACILITIES

DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW3135090		6918
TOTAL		6918
DIRECT FTE		16

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995 RL BUD	FY1996 LEGAL	FY1996 ESH	FY1996 TOTAL	FY1997	FY1998	FY1999	FY2000
OE EW3135090	3436	7372		7271	7698	8031	8272	8563	8788
TOTAL	3436	7372	0	7271	7698	8031	8272	8563	8788
DIRECT FTE	19	18	0	15	18	19	18	18	18

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995 RL BUD	FY1996 LEGAL	FY1996 ESH	FY1996 TOTAL	FY1997	FY1998	FY1999	FY2000
OE EW3135090	6419	7375		7271	7700	8031	8321	7319	5891
TOTAL	6419	7375	0	7271	7700	8031	8321	7319	5891
DIRECT FTE	19	18	0	15	18	19	19	18	18

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

ADMINISTRATION - Includes staff management, performance reviews, salary planning, new employee recruiting and relocation expense, and educational reimbursement. Funding also provides all budget and scheduling functions including planning, controlling, and monthly performance reporting (SMS, PTS, etc.). Provides for Program interfaces with Facility Operations, WHC, and DOE management relative to program financial and schedule status including travel required to support these interfaces. Coordination of ADS preparation/revision and overall support for outyear planning is funded out of this account. Funding for office supplies, computer hardware and software is included as well.

ASSESSMENTS - Provides for the assessments in B Plant/WESF including but not limited to:

Electric, laundry/mask cleaning service, steam/water and utilities, vehicles, central training group (non-plant specific safety training), fire systems maintenance, electrical utilities tax, job control scheduling, waste burial, central computing and business information services.

AUDITS AND OCCURRENCES - Provides resources for reporting unusual occurrences (UO's), Off Normal Events, Emergencies, and Audits/Surveillances as required by WHC Procedures & DOE order 5003.A. Full compliance with DOE Order 5003.B is not possible at the target level in the area of issuing final reports on a final schedule. Also provides support for various oversight review groups and responses to findings (ie, notifications, documentation, administrative support, corrective actions, closeout, etc.).

## RELATED ACTIVITIES NARRATIVE:

This integrates with B Plant Operations and maintenance (4190-AB), Environmental Management (4190-AC), and Project Design Support (4190-AD) and associated TDDs.

## KEY ASSUMPTIONS:

The tasks performed within this TDD are provided in support of the central coordination of the facility. Centralized management of these tasks has proven to provide high quality, cost-effective, and consistent coordination of designated workscope. It is assumed that maintaining these tasks under the administrative activity will continue to be more efficient and cost-effective than placing responsibility in individual facilities line organization.

Assessments are outside the direct control of plant management and will continue to be a large portion of the total budget in the outyears. It is assumed that assessments will continue at their current levels through the budget and planning years but will increase in outyears as other facilities are transitioned from active to inactive leaving B Plant to shoulder a larger portion of the burden. Steam assessment in particular will increase

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in FY 1997, 1998, and 1999 as PUREX completes the deactivation process.

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

- Issued Fiscal Year Work Plans
- Issued Draft Multi Year Work Plans
- Prepared and submitted draft Activity Data Sheets - Prepared Presentations for the Independent Cost Evaluation (ICE), Office of Management and Budget (OMB) financial review teams - Assessed Corrective Action Documents for Tiger Team Actions - Completed FY 1993 budget and schedule preparation

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-00-0055	COMPLETE ENG STUDY, B PLANT RETIRED HEPA FILTER ISO/REMED (W-	4/15/94	4/15/94

## CURRENT YEAR (FY 1994) TASK NARRATIVE:

The Multi-Year Work Plan, Activity Data Sheets and the Five Year Plan provide details for outyear planning and funding requirements. Funding is provided to support the preparation of these plans for ADSs. Data are input into the Hanford Integrated Plan in support of overall Hanford strategic planning.

The Fiscal Year Work Plan provides details for each of the activities contained within ADS 4190.

The Multi-Year Work Plan, Activity Data Sheets and the Five Year Plan provide details for outyear planning and funding requirements.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

Continue central coordination of facility activities. Support will continue to be provided for the identification, response to, and tracking of action items assigned to B Plant/WESF Programs.

The size and scope of the task will be dependent on the number of reviews that are performed, the magnitude of the actions, and the types of responses that are required.

FY 1994 requirements will not fall below the FY 1993 funding level, which is considered to be minimum for this subactivity.

Begin/complete FY 1995 financial/budget planning and cap development.  
Begin/complete FY 1995 schedule preparations. Continue to status budget/schedule on a monthly basis.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

Continue central coordination of facility activities. Support will continue to be provided for the identification, response to, and tracking of action items assigned to B Plant/WESF Programs.

The size and scope of the task will be dependent on the number of reviews that are performed, the magnitude of the actions, and the types of responses that are required.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

Support will continue to be provided for the identification, response to, and tracking of action items assigned to the Facility Operations Programs. The size and scope of the task will be dependant on the number of reviews that are performed, the magnitude of the actions, and the types of responses that are required.

Continue central coordination of facility activities. Support will continue to be provided for the identification, response to, and tracking of action items assigned to B Plant/WESF Programs.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

## DOE Orders:

- 5632.3B - Operations Security
- 1324.2A - Records Disposition
- 2100.1B - Administrative control of Funds
- 2100.3 - Transfer of Contracts Between Departmental Elements
- 2100.7A - Recovery of funds from Prior Year Obligations
- 2100.8 - Cost Accounting, Cost Recovery, and Interagency Sharing of Data Processing Facilities
- 2200.4 - Accounting Overview
- 2200.5A - Fund Accounting
- 2200.6 - Financial Accounting
- 2200.7 - Cost Accounting
- 2200.8A - Accounting Systems, Organizations, and Reporting
- 2200.9A - Miscellaneous Accounting
- 2200.10 - Accounts, Codes and Illustrative Entries
- 2200.12 - Financial Management Systems
- 2250.1C - Cost and Schedule Control Systems Criteria
- 2321.1A - Auditing of Programs and Operations
- 4220.3C - Productivity Improvement and Cost Effectiveness (PRICE)
- 5480.19 - Conduct of Operations Requirements for DOE Facilities
- 5000.3A - Occurrence Reporting and Processing of Operations Information
- 4700.1 - Project Management System
- 4330.4A - Maintenance Management program
- SEN-29-92 - Performance Indicators and Trending Program for Department of Energy Operations
- 10 CFR 830.310, 340, 350
- 40 CFR 265.14
- 40 CFR 265.15
- WAC 173-303-310
- WAC 173-303-320

## REGULATORY KEY ISSUES:

Issues involving the B Plant and WESF facilities will influence the type of centralized programmatic and financial support that will need to be provided to these facilities. Regulatory decisions regarding the operational mode of these facilities will influence the type and size of staff necessary. Continued operations or initiation of facility shutdown/TCO will require more involvement than placement of the facilities in an indefinite standby mode. WESF stores 75 mega curries of encapsulated cesium and strontium and full compliance with governing DOE Orders is necessary. A graded approach will be applied to B Plant, although there is no consistent guidance on how that is to be accomplished.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:  
N/A

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OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4190 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: SAFE OPERATIONS AND MAINTENANCE

INSTALLATION: HANFORD

CATEGORY: WM

DEFENSE/NON-DEFENSE:

VERSION DATE: 5/12/93

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

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LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: OTHER FORMER PRODUCTION FACILITIES

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW3135090  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
21693  
21693  
192

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW3135090	21555	24476		20890	24011	27461	25093	25382	25969
TOTAL	21555	24476	0	20890	24011	27461	25093	25382	25969
DIRECT FTE	203	199	0	175	204	199	202	201	196

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW3135090	21555	26722		21175	24296	26349	18324	14913	12154
TOTAL	21555	26722	0	21175	24296	26349	18324	14913	12154
DIRECT FTE	203	198	0	175	204	188	147	115	89

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

NUCLEAR FACILITY MANAGEMENT - Provides craft, clerical, engineering, professional, supervisor, management and material resources to assure radiological control, facility configuration, and personnel safety during operational, maintenance and project activities at B Plant and WESF. Perform radiological exposure control activities as directed by the current site manuals for personnel management and control of the approximately 1-2 million curies of loose radiated contamination. Maintain an ALARA program. Manage protective clothing supply and disposal. Implement emergency preparedness requirements per facility emergency procedures. Provide structured operational approach to Conduct of Operations per DOE Order 5480.19. Maintain configuration of facilities using work control systems, design data bases and controlled files. Monitor and control support organizations matrixes to facilities.

ESSENTIAL SYSTEMS - Operate and maintain essential B Plant/WESF Systems. This includes: operation, monitoring, surveying, engineering, modification, planning/scheduling, implementation, and documentation required to maintain systems. Essential systems are those required to : 1) operate B Plant/WESF within the safety envelope defined by the SAR, 2) prevent or mitigate the release of radioactive contamination of radioactive materials and hazardous waste, 3) ensure personnel safety per OSHA guidelines and DOE requirements, prevent or minimize personnel radiation and chemical exposure, and 4) perform required maintenance and testing to maintain operational systems.

NUCLEAR FACILITY TRAINING - Provides training support for all B Plant/WESF direct and essential staff. Actions include: develop and maintain training packages; maintain, give, and grade examinations; provide classroom instruction where necessary; maintain adaptable records of certification; maintain master database of certifications; schedule retraining; operate local HGET station; produce reports of certification status to support management decisions; and coordinate with Technical Training for support. Includes all required onsite and offsite training necessary to maintain assigned staff competent for their responsibilities.

RADIOLOGICAL INVENTORY MANAGEMENT - Provides for the operation and maintenance of systems necessary to store, treat, and eventually dispose of existing radiological inventories. Specifically provides for the surveillance and inventory monitoring of cesium and strontium capsules stored at WESF, residual radioactive and mixed waste inventories at B Plant/WESF, and loose/fixed radiological inventory in B Plant A, B, C, and D filters in 291-B.

NUCLEAR PROCESS MANAGEMENT - Provides for the operation and maintenance of nuclear process systems. Operate and maintain sample truck, associated sample containers, and packaging equipment for all 200 area facilities. Nuclear process systems at B Plant/WESF include: 1) low level liquid waste, 2) vessel ventilation, 3) cold chemicals supply systems, 4) available process cells, 5) jet gang valves, 6) sampling activities, and 7) the facility structural secondary containment system.

SAFETY SYSTEMS ANALYSIS - Maintain the B Plant/WESF Safety Analysis Reports (SAR's) and related documentation to ensue safe plant operation. Assess new requirements and develop implementation plans using graded approach philosophy. Specifically provides for: 1) maintain SAR, 2) revise SAR to reflect current mission and configuration, 3) assess compliance, 4) administer SAR related tasks (i.e. USQ, OSR evaluation, 5) develop and maintain Safety Equipment List (SEL), and 6) implement WHC-CM-4-40.

#### RELATED ACTIVITIES NARRATIVE:

This integrates with B Plant Administration (4190-AA) Environmental Management (4190-AC), and Project and Design Support and associated TDDs.

#### KEY ASSUMPTIONS:

The CSP five year program will not be implemented until FY 1997. The reduction of B Plant from a moderate hazard to a low hazard nuclear facility will be deferred until 2001.

TPA milestones are not accelerated. Cost estimates are based on resource loaded schedules and previous year workscope maintenance. Actual training time required per individual is a function of the number of individuals in that organization at any given time.

The B Plant Cleanout and Stabilization Plan (CSP) will be approved. No additional regulatory samples (other than what is already identified) will be required. B Plant will not be able to continue to support 200 Area Sample Truck, unless additional funding is realized from all users.

DOE Order Graded Compliance is assumed. No additional DOE Orders are implemented. Complete upgrade of B Plant/WESF SARs will not be required to transition to facility shutdown.

#### ACTIVITY BY PRIORITY:

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

The subactivity provides for maintenance of all elements discussed in previous sections. The aged maintenance backlog has decreased by 5% this fiscal year with projections that it will be at 7% at the end of the fiscal year. There have been 235 corrective maintenance work packages, 200 preventive maintenance work packages, 122 instrument calibration packages, and 1365 J-3 (routine) packages completed at midyear.



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-00-0115	REMOVE ANN, HEDTA, & EDTA FROM 211-B TANKS	11/17/93	11/17/93
4190-00-0125	COMPLETE PHASE 2 QUALIFICATION PACKAGE FOR ENGINEER CERTIFICATION	12/31/93	12/31/93
4190-00-0120	REMOVE & BURY D-FILTER PLUG	12/31/93	12/31/93
4190-00-0130	DISABLE B PLANT TANKS WITHOUT SPILL CONTAINMENT	1/31/94	1/31/94
4190-00-0145	SUBMIT NESHAPS TECHNICAL INFORMATION PACKAGE	4/30/94	4/30/94
4190-00-0140	ISSUE B PLANT ACCIDENT ANALYSIS	5/31/94	5/31/94
4190-00-0090	REMOVE COVER BLOCKS FROM WESF ACTIVE POOL CELLS	6/30/94	6/30/94
4190-00-0020	SUBMIT B PLANT TECHNICAL SAFETY REQUIREMENTS DOCUMENT	7/02/94	7/02/94
4190-00-0045	COMPLETE B PLANT ORGANIC CONSOLIDATION	9/30/94	9/30/94
4190-00-0040	SUBMIT B PLANT INTERIM SAFETY BASIS	9/30/94	9/30/94
4190-00-0095	SUBMIT BASIS DOCUMENT FOR WESF OSR REDUCTION	9/30/94	9/30/94

## CURRENT YEAR (FY 1994) TASK NARRATIVE:

- o Continue safe storage and handling of the existing radiological inventory including WESF cesium and strontium capsules

- o Determine methods and plan required to characterize the A, B, C, and D filter inventory

- o Evaluate condition and characterize inventory of A, B, C, and D canyon exhaust filters

- o Complete safety analysis on retired filter water seals and revise SAR as necessary

- o Complete activities required to establish the sand filter as the emergency back filter for the canyon exhaust system.

- o Establish routes and transfer the inventories of NCAW and Cesium to Tank Farms

- o Consolidate, separate and sample contaminated organic solutions stored in process cells.

- o Operate the Low Level Waste Concentrator and optimize with effluent streams recycled back into the facility.

- o Rebaselining of the SAR to current operating configuration will be initiated with the following elements to be completed in FY 1993: Hazard Classification, Facility Description, Hazards Analysis, Accident Analysis

- o Prevent the growth of radiological zones in the habitual areas of the

facility

o Decrease workpackage backlog by 7% (734 to 680)

#### FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-00-0075	CHARACTERIZE THE WESF K-3 DUCTWORK RADIOACTIVE INVENTORY	9/30/95	9/30/95

#### BUDGET YEAR (FY 1995) TASK NARRATIVE:

Rebaselining of the SAR to current operating configuration will be completed with the following elements initiated and completed in FY 1994:

o Safety Classification

o OSR Revisions

o Complete planning and initiate design of equipment to perform the cleanout/washdown of the K3 duct.

o Operating procedures for emergency recovery and development of drill program per conduct of operations

o Self survey implemented

o LLW concentrator fully operational and discharge of steam condensate to tank farms reduced by 50%

o Isolation of deactivated B Plant Process cells

o Receive and make operational the portable industrial vacuum loader for external contamination control

o Complete combining all landlord and project drawings for essential systems into B Plant controlled drawings

o Operators training certification, certification packages complete for shift supervisors

o Sandfilter is fully operational in the closed loop auto mode for emergency backup

o Nuclear power operator and nuclear operator training certifications complete

o Evaluate condition and characterize inventory of A, B, C, and D canyon exhaust filters.

#### FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

o WESF activities include continued surveillance of all capsules and completion of the K-3 duct cleanup efforts as well as continued receipt of cesium capsules.

o Decision with operable unit managers on areas external to buildings scope of cleanup and stabilization.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

WESF is operated and maintained to store cesium and strontium capsules within the SAR defined safety envelope.

B Plant is maintained in a safe, standby mode.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

## DOE Orders:

5480.5 - Safety of Nuclear Facilities

5480.11 - Radiation Protection for Occupational Workers 5480.19 - Conduct of Operations Requirements for DOE Facilities 4330.1 - Maintenance of Property

4330.4A - Maintenance Management Program

5400.9, 5480.SCP, 5480.1A, 5480.4C, 5480.6, 5480.9, 5480.11, 5500.2B, 5500.3A, 6430.1A, 4010.1, 4330.1, 5480.4, 5480.20, 5481.1B, 6430.1A, 5483.1, 5480.YY

TPA M2021A Submit Part B Permit (M-20-21A) ECD 9-30-95 TPA M1704 Cease BCE Discharge to 216-B-3 Pond (M-17-04) ECD 6-30-95 TPA M1708B Implement BAT/AKART for BCE, BCS, BCP (M-17-08B) ECD 6-30-95 TPA M1700B Implement BAT/AKART for CBC (M-17-08B) ECD 10-31-97 NRC Regulation of COC #9070, Docket #71-9070, N-55 Overpack

## REGULATORY KEY ISSUES:

Extent of activities and determination of B Plant scope of responsibilities under Operable Units workscope has not been defined. Outside contamination reduction/abatement is not addressed per the CSP. Canyon/wind tunnel decon is not addressed in CSP. B Plant compliance with orders and requirements during CSP. RIDS assessments of orders and regulations are not funded in the target case.

Funding levels for FY 1993-1999 are not sufficient to support all requirements, and drivers. Operations training shift is not in FY 1993-1999 funding levels and overtime is not available to permit required operation supervision on rotating shift.

Long term order and regulation compliance requirements are not clearly defined. DOE promotes graded compliance at surplus facilities, but continues to audit against strict compliance.

Deactivation of process systems will not be possible, along with required training certifications for operators. Potential impacts of whole body reduction from 1000mr annual to 500mr annual could render the facility unable to meet zone control and reductions requirements of site RAD CON manual at both the target and planning case for FY 1994 and beyond. Operability of several plant systems will be impacted if adequate resources are not made available. Resources are not available at the target case in all years to provide for recovery from major unplanned system upsets or failures.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

## CONCERNS AT PLANNING LEVEL:



REQUIRED TECHNICAL DEVELOPMENT:  
Not applicable.

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TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4190 ADS SUF: 0 SUBACTIVITY: AC

SUBACTIVITY TITLE: ENVIRONMENTAL COMPLIANCE

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

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LINE ITEM NO: TPC: TEC:

DESCRIPTION: OTHER FORMER PRODUCTION FACILITIES

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW3135090	TOTAL
TOTAL	2655
DIRECT FTE	2655
	25

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3135090	3012	2257	2655			2655	2792	3262	3235
TOTAL	3012	2257	2655	0		2655	2792	3262	3235
DIRECT FTE	29	23	25	0		25	25	25	24

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3135090	3012	2693	2664			2664	2737	2284	2022
TOTAL	3012	2693	2664	0		2664	2737	2284	2022
DIRECT FTE	29	26	25	0		25	25	22	19

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

ENVIRONMENTAL MANAGEMENT: Develop and manage policy and activities required to implement environmental regulations and applicable DOE Orders. Develop and submit to regulators a RCRA Part B permit application then work with regulators to permit finalization. Develop the information required for liquid and air effluent permits. Management documentation, reports and plans required for TSD and generator facility operations. Determine the appropriate policy for application of new environmental regulations, DOE Orders, and WHC Policy. Develop the implementation of these requirements. Carry out all activities as directed by the facility Environmental Compliance Officer to operate the TSD in compliance with RCRA and WAC requirements.

EFFLUENT MANAGEMENT: Operate and maintain the liquid and gaseous effluent systems. Provide the support required for the development and implementation of BAT/AKART for the liquid effluent streams. Provide technical support for implementation of 200 Area liquid effluent collection and disposal system. Provide technical support for upgrades to the air effluent sampling and monitoring systems, if required, to meet applicable regulations. Provide data for the required effluent reports. The air and effluent systems at B Plant/WESF include: (1) Liquid Effluents - Chemical Sewer, Cooling Water, Steam Condensate, Process Condensate, and Sanitary Sewer; and (2) Gaseous Effluents - 291-B-1 Stack, 296-B-5 Stack, 296-B-10 Stack, 296-B-13 Stack.

SOLID WASTE MANAGEMENT: Operate and maintain the systems needed to handle hazardous, radioactive and mixed solid waste generated during the operation, cleanout and stabilization of B Plant/WESF. Prepare and maintain the documentation associated with the storage, transport and disposal of solid waste. This includes certification plans, waste management programs, characterization plans, and waste handling procedures. Develop and implement regulations, DOE Orders and WHC policy concerning solid waste handling. Develop and procure burial hardware required to disposal of the solid waste generated. The waste handling system includes: Hazardous Waste Storage Pad, Mixed Waste Storage Pad, LLW Storage, Satellite Accumulation Areas, PCB Storage, Cell 4, A Cell, Cells 15 and 16, and non-regulated Solid Waste Storage.

## RELATED ACTIVITIES NARRATIVE:

This integrates with B Plant Administration (4190-AA), Operations and Maintenance (4190-AB) and Project and Design Support and associated TDDs.

## KEY ASSUMPTIONS:

B Plant Continuity of Operations provides funding for day-to-day environmental compliance activities.

The schedules contained herein for implementing the air and operating permit program (i.e., conducting an air emission inventory, submitting an

operating application and conducting follow-on biannual inventories) are predicated on the State of Washington submitting its program to the EPA in November 1993 (as required by the Clean Air Act Amendments of 1990) and EPA approving the state program in November 1994, thus requiring submittal of the Hanford Operating Air Permit Application 90 days later (i.e. February 1995) and biannual inventories beginning in August 1995.

Estimates are based on current working projections and from historical data.

The Liquid Effluent Program provides funding for implementing sampling and analysis plans, developing and implementing impact assessment methodology, and coordinating miscellaneous stream actions.

B Plant will become an 'Approved Shipper' per Solid Waste requirements in WHC-EP-0063. This will remove the current requirement of SW surveillance for every shipment and speed up the shipping process.

The TPA Schedule for the submittal of the Part B permit and tank integrity assessment applications can be renegotiated with the regulations.

Submittal of a Part B Permit to the State has been negotiated under TPA-M-20-21 for 9/30/95. This milestone will have to be renegotiated as a Closure Plan, with a due date commensurate with the deactivation funds available.

Report on performance of the Tank Integrity Assessments are currently under negotiation TPA M-32-08. Due date yet to be determined.

Project W-049H provides the 200 Area Treated Effluent Facility for the B Plant Phase I streams in 1995. Project W-007 will provide BAT/AKART for the Phase I streams to meet the TEDF acceptance criteria.

Project W-252 provides the BAT/AKART implementation as well as collection and disposal from the B Plant Phase II stream in 1997.

#### ACTIVITY BY PRIORITY:

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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#### TASKS COMPLETED TO DATE:

M-17-04B - Discontinue discharge of the B Plant Chemical sewer to 216-B-63 trench.

M-17-27 - Submit sampling and analysis plan for the B Plant cooling water to EPA and Ecology.

M-20-21 - Establish new interim milestone data for submittal of B Plant Part B Permit Application.



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-00-0005	SUBMIT B PLANT TANK INTEGRITY SCHEDULE	4/30/94	4/30/94

## CURRENT YEAR (FY 1994) TASK NARRATIVE:

Clean Cell Drain Header and tank 10-1 in preparation for inspection and integrity testing to insure compliance with regulatory requirements for secondary containment for that portion of the system.

Prepare a Management Action Plan (MAP) to provide direction on the preparation of the Part B Permit.

Update and release Waste Analysis Plan.

Complete all actions required to become an approved waste generator.

Disposition all backlog waste

Complete 65 corrective maintenance packages, 25 instrument calibration packages, 10 preventative maintenance packages and 150 J-3 routine packages.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-00-0010	COMPLETE TANK INTEGRITY ASSESSMENT PLAN FOR B PLANT	10/31/94	10/31/94

## BUDGET YEAR (FY 1995) TASK NARRATIVE:

The B Plant Part B permit and the Tank Integrity work scope will be deferred to FY 1995.

Replacement of the effluent sampler system will be deferred to FY 1995

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-00-0015	COMPLETE B PLANT INTERIM STATUS TANK ACTION	12/31/95	12/31/95
4190-00-0025	SUBMIT B PLANT PART B PERMIT/CLOSURE PLAN	9/30/95	9/30/96

## PLANNING YEAR (FY 1996) TASK NARRATIVE:

Submit Biannual Air Operating Permit Inventory - 8/31/95-99 Cease Phase I discharge to B Pond, route streams to TEDF - 6/30/95 Procure New Design Burial Box - 01/03/95

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-00-0080	PROCURE NEW DESIGN BURIAL BOX	1/03/95	1/03/97

## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

- B Plant facility provides support services and effluent treatment to (WESF) which includes effluent disposal and liquid and solid waste handling.



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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

The Hanford Site was proposed for inclusion on the National Priority List (NPL) in June 1989 and placed on the NPL in November 1989 (40 CFR 300.52 FR 4280). The Hanford Federal Facility Agreement and Consent Order (also known as the Tri-Party Agreement or the TPA) was negotiated in anticipation of placement on the NPL. The U.S. Environmental Protection Agency (EPA) entered into the TPA pursuant to Section 120 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. Sec 9620 (e), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), and Sections 6001, 3008 (h) and 3004 (u) and (v) of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Secs. 6961, 6928 (h), and 6924 (u) and (v), as amended by the Hazardous and Solid Waste Amendments of 1984 (HSWA), Pub. L. 98-616, and Executive Order 12580.

Pursuant to Section 3006 of RCRA, EPA authorized the State of Washington to administer and enforce a state hazardous waste management program, in lieu of the federal hazardous waste management program. The Department of Ecology (Ecology) is the state agency designed by RCW 70.105.130 to implement and enforce RCRA. Thus, Ecology entered into the TPA pursuant to CERCLA, RCRA, the Washington Waste Management Act (HWMA) and RCW 70.105.

Pursuant to Section 6001 of the RCRA, the U.S. Department of Energy (DOE), as a federal agency, must comply with the procedural and substantive requirements of state law, as is a 'person' as defined as RCW 70.105.010 (7). DOE entered into the TPA pursuant to CERCLA, RCRA, Executive Orders 12580 and 12088, and the Atomic Energy of 1954, as amended.

The TPA milestone applicable to B Plant TSD units is M-20-21A, which requires the submittal of a Part B Application by September 1995. The TPA establishes a schedule for the review and response process including two revisions to the Part B application and a public review process.

Ecology's Dangerous Waste Regulations are included in the Washington Administrative Code under WAC 173-303. Article WAC 173-303-281 requires that any permit application for new or expanded dangerous waste management units be preceded by a filing Notice of Intent by 150 days, to allow for public comment.

The Emergency Planning and Community Right-to-Know Act (EPCRA 312) requires submittal to emergency planning organizations and regulatory agencies an annual Tier Two Emergency and Hazardous Chemical Inventory reports by March 1 of each year for the preceding calendar year. DOE notice SEN 37-92 requires submittal to DOE of an annual waste reduction report by March 15 of each year for the preceding calendar year. RCRA requires submittal to EPA of an annual dangerous waste report by March 1 of each year for the preceding calendar year.

The TPA milestones applicable to B Plant liquid effluents is M-17-00. Based on consideration of the Clean Water Act, DOE policies, as implemented through DOE Order 5400.5, require that the use of soil columns (trenches, crib, ditches, ponds, drain fields, etc.) to treat and retain suspended or

dissolved contaminants from liquid waste streams be discontinued at the earliest practicable date in favor of waste minimization, wastewater treatment and engineered disposal of concentrated waste. In response to a Congressional report in March 1987, DOE-RL issued a 'Plan and Schedule to Discontinue Disposal of Contaminated Liquids into the Soil Column at the Hanford Site.' This plan defined Phase I and II streams; Phase I streams were considered to be of higher priority and would have alternative treatment and disposal systems implemented by June 1995. Milestone M-17-00 requires the completion of liquid effluent treatment facilities/upgrades for all Phase I streams by June 1995 and 1997 implementation of 'Best Available Technology/All Know, Available, and Reasonable Methods of Prevention, Control and Treatment (BAT/AKART), for all Phase II liquid effluent streams.

In December 1991, DOE and Ecology entered into the 'Hanford Federal Facility Compliance Agreement for Permitting Non-Hazardous Liquid Effluent Discharges to Ground.' This agreement, among other things, required DOE to submit a plan and schedule, by January 31, 1994, for dispositioning all miscellaneous streams at Hanford.

Ecology's Dangerous Waste Regulations are included in the Washington Administrative Code under WAC 173-303. Article WAC 173-303-200 includes requirements for handling of dangerous or mixed waste at a generating facility.

Low level waste must be managed according to the requirements in WHC-EP-0063. This requirements assure that applicable DOE orders (5820.2A) and applicable regulations are met in storage, transport and disposal of LLW.

In 1992 DOE received a compliance order from EPA in regards to the radioactive air emissions NESHAP in 40 CFR 61 subpart H. A compliance agreement is due in February 1993. Other regulations driving air effluent activities include DOH Air Emissions RAD Protection in WAC 246-247 and Ecology Air Toxic in WAC 173-460.

#### REGULATORY KEY ISSUES:

A BAT/AKART evaluation of all B Plant liquid effluents was submitted to Ecology in FY 1992. Projects have been identified for implementation prior to June 1995 to achieve compliance with the June 1995 requirement to apply BAT/AKART to the liquid effluent streams and to eliminate all discharges to the designated receiving sites.

Development of requirement for category III solid waste is needed for B Plant to effectively dispose of contaminated solid waste within the Plant. This is a sitewide issue.

#### COMP/PROG BENEFITS AT PLANNING LEVEL:

## CONCERNS AT PLANNING LEVEL:

All activities are funded at the planning level.

## REQUIRED TECHNICAL DEVELOPMENT:

None.

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OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4190 ADS SUF: 0 SUBACTIVITY: AD

SUBACTIVITY TITLE: PROJECT SUPPORT

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

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LINE ITEM NO: TPC: TEC:

DESCRIPTION: OTHER FORMER PRODUCTION FACILITIES

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW3135090		0
CE 35EW31356		250
GP 39EW31356		0
TOTAL		250
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3135090	434	0		0	0	0	0	0	0
CE 35EW31356	400	200	250		250	500	500	500	500
GP 39EW31356	1000	0	0		0	0	0	0	0
TOTAL	1834	200	250	0	250	500	500	500	500
DIRECT FTE	3	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3135090	434	200		200	200	200	200	200	200
CE 35EW31356	400	500	500		500	500	500	500	500
GP 39EW31356	1000	0	0		0	0	0	0	0
TOTAL	1834	700	500	200	700	700	700	700	700
DIRECT FTE	3	0	0	0	0	0	0	0	0

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

Identify and complete Engineering Studies and Functional Design Criteria preparation for non-environmental projects in support of the long-term stabilization and the continued safe occupancy of B Plant/WESF. Evaluations include stabilization process technologies, utility upgrades, and Safeguards and Security projects. Other expense support to capital projects is included in this scope of this activity. Provides funding for support organizations that contribute to the preparation and review of non-environmental project documentation (example: safety reviews, QA reviews, cost estimates). The majority of projects falling under this TDD fulfill legal operating requirements, however, safety related non periodic upgrades of facility safety systems are also within this scope.

CONFIGURATION CONTROL/DESIGN & OPERATIONS: Provides for administration of the document control system and the performance of the following activities per DOE Order 6430.1A Design Criteria, 5700.6B Quality Control, and 5480.19 Conduct of Operations: (1) release engineering drawings, supporting documents, and Plan Operating Procedures. Control initial release and revisions, maintain required databases, essential drawing file and controlled procedure manuals. (2) Issue, revise distribute, and track control of WHC controlled manuals. (3) Store and microfilm engineering drawing mylars, CAD files and tapes, and Engineering Change Notices. (4) Assign Vendor Information (VI) file numbers, administer required database, and microfilm VI files. (5) Provide a records inventory and disposal system which stores, indexes, retrieves, microfilms and archives records.

CANYON CRANE UPGRADE: Repair B Plant canyon crane to ensure operability during B Plant Cleanout and Stabilization and to reduce maintenance costs. The upgrade will correct deficiencies identified through an engineering study, vendor inspections, and by crane operators during normal operations. Specific tasks include clean-up of the canyon to support the repair, disposal of all demolition debris in burial boxes and completion of the following tasks: (1) repair existing end stops and add bumpers to bridge trucks, (2) install wheel flange lubricators, (3) install bushings and bolts for existing couplings between main hoist drive motor and gear box, (4) replace second reduction pinion with bearing for main hoist gear box, (5) replace trolley drive motor (with disk brake), coupling and supports, and (6) install new wheel assembly for trolley drive axle.

CLEANOUT AND STABILIZATION (CSP): Provides for the implementation of the Cleanout and Stabilization Plan which chronicles the activities required to cleanout/stabilize B Plant - moving it from a high hazard facility to a low hazard facility. This includes both hot and cold side tasks including: (1) reduce the existing hazardous or radiological contamination to acceptable levels, (2) remove and dispose or isolate abandoned systems and equipment, (3) isolate sources of potential chemical or radioactive contaminants, and (4) fix remaining contamination to reduce/remove restrictions for access and maintenance of remaining equipment.

PROJECT AND MODIFICATIONS: Identify the need for and direct the installation of capital projects to maintain B Plant operating systems in compliance with applicable DOE Orders, WAC requirements and WHC control

manuals. Provide direction to install/test 'E' Filter and to perform 'E' Filter qualification testing. Modify K-3 Filter to ensure system satisfies functional requirements. Incorporate new technologies and processes to improve plant operation, replace obsolete equipment and satisfy regulatory requirements.

#### RELATED ACTIVITIES NARRATIVE:

This integrates with B Plant Administration (4190-AA) Operations and Maintenance (4190-AB), Environmental Management (4190-AC) and construction projects (4190-AE) and associated TDDs.

#### KEY ASSUMPTIONS:

Activities requiring the services of document release stations for engineering documents and plant operating procedures will not change.

Graded DOE compliance to orders is assumed.

Health Physics Technicians will be available to support project installation, testing and startup.

The extent of canyon crane rail repairs necessary to insure safe crane operations for an extended period of time has not yet been determined and no funding has been allocated in this account for this task.

#### ACTIVITY BY PRIORITY:

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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B PLANT CENRTC  
B PLANT CENRTC  
B PLANT CENRTC

#### TASKS COMPLETED TO DATE:

Ongoing projects include:

- o Sandfilter is operational as the backup to E Filter.
- o Pipe Gallery Refurbishment/Cleanout is scheduled to be completed in the third quarter of FY 93.
- o Submitted Cleanout and Stabilization Plan (CSP) to DOE-RL.
- o M-17-04B Discontinue discharge of the B Plant Chemical sewer to 216-B-3 trench.
- o M-17-04C Complete construction of Project W-004, B Plant AMU Upgrades.
- o M-17-04D Complete construction of Project W-010, B Plant Environmental Upgrade.
- o M-17-27 Submit sampling and analysis plan for the B Plant cooling water to EPA and Ecology

- o M-20-21 Establish new interim milestone date for submittal of B Plant Part B Permit Application
- o NCAW Transfer to Tank Farms is scheduled in May 1993.



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-00-0135	COMPLETE DEF DESIGN B PLANT BAT/AKART PHASE 1 STREAMS (W-007H)	4/30/94	4/30/94

## CURRENT YEAR (FY 1994) TASK NARRATIVE:

- o Clear the canyon deck and craneway of materials and hardware no longer of use and deconned with best available technology, as funding permits.

- o 221-B Canyon Crane interim repairs will be completed per consultant's recommendations including procurement and installation of a video system to supplement unreliable optics currently used.

- o Complete refurbishment of the pipe gallery initiated last year.

- o Perform radiological analysis of A filter using computer codes and current RAD data to verify the curie source term.

- o Perform video/photo inspection of retired canyon exhaust filters to assess physical condition.

- o Define methods for long term characterization of remaining retired filters.

- o Identify alternatives for long term isolation/remediation of retired canyon exhaust filters

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-00-0030	CEASE B PLANT CHEM SEWER DISCHARGES TO 216-B-3 POND (W-049H)	6/30/95	6/30/95
4190-00-0085	COMPLETE CONSTRUCTION B PLANT BAT/AKART PHASE 1 STREAMS (W-007H)	6/30/95	6/30/95

## BUDGET YEAR (FY 1995) TASK NARRATIVE:

- o Complete installation of WESF Pool cell IX for emergency leaking capsule control, eliminating a major dependency on B Plant and Tank Farms.

- o Continue planning to identify changes required to segregate WESF from B Plant Systems.

- o Initiate characterization of source term in retired canyon exhaust filters.

- o Prepare recommendation for long term isolation/remediation of canyon exhaust filters. Revise W-059 Functional Design Criteria if appropriate.

- o Target funding allows completion of the crane repairs initiated in FY 1993, but the crane rail bed refurbishment will be indefinitely deferred.

- o The E-Filter will be brought on line in FY 1994.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

- o Support project to stabilize/remediate retired canyon exhaust filters.
- o Provide major component replace for 271B HVAC system.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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4190-00-0100	COMPLETE CONSTRUCTION B PLANT CLOSED LOOP COOLING (W-252)	10/31/97	10/31/97

## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

FY 96 activities include continued surveillance and maintenance activities required to keep B Plant and WESF in a safe configuration. Beginning in FY 97 activities are planned to progress against the Cleanout and Stabilization Plan (CSP).

The major tasks planned in FY 97 are:

1. Modification and decontamination for Cell 15. Cell 15 has been selected to be modified as the decontamination cell and to handle the equipment from the first group of process cells (Cells 11, 12, 13, 14). Movable containers commonly called jumper pans, a mobile shearing device (jumper cutter), commercially available pressure spraying equipment, and new jumpers will be used in Cell 15 to accomplish the flushing and handling of equipment for disposal. Cell disassembly, Cell 15 CSP activities, and loading of the burial boxes will be performed remotely by the crane operator.

Cell decontamination activities for this program will be limited to a washdown of the original cell with jumpers in place, and a second washdown after equipment removal is complete.

2. Procure burial boxes. Fabricate suitable burial boxes and liners as required to satisfy the burial needs and requirements. The burial boxes will be Solid Waste Burial Boxes. B Plant currently owns 10 Solid Waste Drag Off burial boxes which will need to be modified to increase structural integrity and install safety features such as the positive lid closure mechanism, a new lid-lifting bail, fillet welds, drain holes, and new paint for contamination control.

Beginning in FY 98 and continuing into FY 99 the following activities are planned to progress against CSP:

1. Organic processing - An organic solvent mixture formerly used for the solvent extraction strontium recovery process is currently stored in seven

vessels and five process cells. The contaminated organic solvent is a major contributor to the high-hazard classification of B Plant. The current B Plant Safety Analysis Report (SAR) requires maintenance of Operational Safety Requirements (OSR) instrumentation to monitor the temperature of each tank, a fire suppression system in each cell, and routine surveillance by Operations.

Continued storage of organic inventory in five cells in counter to the CSP objectives of cleanout of as many canyon cells as possible and reducing operating systems and operations and maintenance (O&M) costs. Removal of the contamination from the organic solvent or disposal of the organic solvent outside the 221B canyon is necessary to lower the hazard class.

The overall strategy for disposition of the organic for the CSP is as follows:

Consolidate the organic to as few cells and vessels as possible, as soon as possible.

Sample and characterize the organic, and determine the disposition of the aqueous phase.

Determine the best process to remove the strontium contamination from the organic solvent. Test, prove, and demonstrate the process.

Treat or clean the organic as needed to remove the liquid from the canyon as soon as possible. This will allow handling of the organic as nonradiological hazardous waste or low-level mixed waste, outside the canyon.

Complete final disposition or disposal of the organic outside the 221-B canyon.

2. Filter Remediation - A determination needs to be made on what to do with the existing HEPA filter inventory. Specifically, the isolation of A, B, C, and D filters with positive physical barriers that prohibit migration of radiological inventory to the stack or the facility. This activity is essential to achieve a low hazard facility status.

3. Cell 25 modifications - A potential strategy to obtain a Part B Permit for Cell 25 only, may expedite the deactivation of this system. A liner or drip pan can be installed in Cell 25 along with new tanks to satisfy tank integrity and secondary containment requirements.

o Prepare engineering study and functional design criteria as necessary to resolve drainage problems associate with snow melt and heavy rains at B Plant to prevent water intrusion into contaminated portions of the structure. Project may involve structure repairs and modifications as well as site grading, storm sewers, pump stations and collection ponds. Target funding is not provided for modifications and construction if expense funded.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

DOE Orders:

5480.5 Safety Nuclear Facilities  
6430.1A General Design Criteria  
4700.1 Project Management System  
4010.1 Value Engineering  
5600.1 Management of Nuclear Materials  
5632.2A Physical Protection of SNM and Vital Equipment  
5633.3 Control and Accountability of Nuclear Materials  
4330.4A Maintenance Management Program B Plant Cleanout and Stabilization Program Plan  
5400.1, 5440.2, 5440.3, 5820.2A, 6430.1A, MRP 4.6, and WHC-CM 1-3, 4-2, 5-16, 5-30, 5-23, 5-1, 7-5, 8-7.

## REGULATORY KEY ISSUES:

Additional as-building efforts at B-Plant/WESF, as required to bring the facilities into compliance with DOE Orders, are not funded. Essential drawings of external piping utilities are non-existent or are of insufficient detail to base critical decisions in emergency situations as was exhibited by the 'A' filter flood. 'A' filter flooding was allowed to continue for an extended period of time after discovery as drawings were not ready available to identify the appropriate isolation valve on the source of water.

Target funding does not permit unanticipated large non-routine maintenance tasks that may be required to ensure safe operation of the facility.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

## CONCERNS AT PLANNING LEVEL:

None.

## REQUIRED TECHNICAL DEVELOPMENT:

None.

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4190 ADS SUF: 0 SUBACTIVITY: AE

SUBACTIVITY TITLE: CLEANOUT AND STABILIZATION

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: OTHER FORMER PRODUCTION FACILITIES

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW3135090	TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3135090	0	0	0	0	0	3773	6314	5077	3179
TOTAL	0	0	0	0	0	3773	6314	5077	3179
DIRECT FTE	0	0	0	0	0	34	31	26	23

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3135090	0	3940	6339	6339	5018	3316	2945	0	
TOTAL	0	3940	6339	0	6339	5018	3316	2945	0
DIRECT FTE	0	35	35	0	35	30	23	23	0

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

PROJECT ADMINISTRATION - Administration, oversight support to Hanford Environmental Compliance (HEC) Line Item Projects W-007H, B Plant Condensate Treatment Facility, and W-024, B Plant Radiological and Contamination Upgrades.

ENVIRONMENTAL PROJECTS - Project support to W-004, B Plant AMU Upgrade; Project W-010, Environmental Upgrade, Project W-007, Process Condensate Treatment Facility, W-024, B Plant Radiological and Contamination Upgrades. New projects, NESHAPS, to replace stack radioactive monitoring systems.

UPGRADE PROJECTS - Project support to Project W-094, E Filter Instrument Upgrade, and Project B-455, K-3 Filter Changeout.

## RELATED ACTIVITIES NARRATIVE:

This integrates with B Plant Project and Design Support (4190-AD) and associated TDDs.

## KEY ASSUMPTIONS:

Capital funding for these activities is provided in ADS 2310.

## ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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## TASKS COMPLETED TO DATE:

M-17-04C: Completed construction of Project W-004, B Plant AMU Upgrades  
M-17-04D: Completed construction of Project W-010, B Plant Environmental Upgrade.

# SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-00-0050	ISSUE B PLANT CLEANOUT AND STABILIZATION PLAN, REV 2	9/30/94	9/30/94

## CURRENT YEAR (FY 1994) TASK NARRATIVE:

o Prepare engineering study to rescope W-059 to isolate retired HEPA filters.

o Complete Project W-239, E Filter Activation, and W-094, E Filter Instrumentation Upgrade; E Filter will be readied for service.

o Continue activities in the preparation for the replacement and burial of the WESF K3 filters to be completed this year.

o Prepare engineering study to isolate related B Plant systems from WESF not in planning or target FY 1993-1999

o Complete punchlist items for Projects W-004 and W-010 turnover 9/30/93.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

Place E Filter in service if necessary.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

Complete Project W-049 as required to meet TPA Milestone M17-08B.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-00-0070	DECONTAMINATION CELL OPERATIONAL	1/03/96	1/03/98
4190-00-0065	COMPLETE REMOVAL OF B PLANT ORGANIC INVENTORY	9/30/96	9/30/98

## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

Support design installation at

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

## DOE Orders:

5660.1 Management of Nuclear Materials

5480.5 Safety of Nuclear Facilities

6430.1A General Design Criteria

4700.1 Project Management System

4010.1 Value Engineering

5600.1 Management of Nuclear Materials

5632.2A Physical Protection of SNM and Vital Equipment 5633.3 Control and Accountability of Nuclear Materials

## REGULATORY KEY ISSUES:

Clean Air Act (NESHAPS) requirements for B Plant/WESF stacks are not well identified and requested funding may not be adequate.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

## CONCERNS AT PLANNING LEVEL:

Initiation of planning to isolate WESF for B Plant cannot be started at all outyear planning levels.

## REQUIRED TECHNICAL DEVELOPMENT:



E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4190 ADS SUF: 0 SUBACTIVITY: PC

SUBACTIVITY TITLE: PRODUCTIVITY CHALLENGE

INSTALLATION: HANFORD

CATEGORY: WM

DEFENSE/NON-DEFENSE:

VERSION DATE: 5/12/93

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

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LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: OTHER FORMER PRODUCTION FACILITIES

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW3135090  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
-2817  
-2817  
0

## TARGET CASE (\$ IN THOUSANDS)

B&R  
OE EW3135090  
TOTAL  
DIRECT FTE

FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
RL	BUD	LEGAL	ESH	TOTAL				
0	-3493			-3734	-7025	-9545	-4276	-4186
0	-3493	0	0	-3734	-7025	-9545	-4276	-4186
0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

B&R  
OE EW3135090  
TOTAL  
DIRECT FTE

FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
RL	BUD	LEGAL	ESH	TOTAL				
0	-3493			-3734	0	0	0	0
0	-3493	0	0	-3734	0	0	0	0
0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4190 ADS SUF: 1 SUBACTIVITY: AA

SUBACTIVITY TITLE: PROJECT (W-059) SAFETY CLASS VENTILATION UPGRADE

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC: 8300

DESCRIPTION: OTHER FORMER PRODUCTION FACILITIES

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW3135090		TOTAL
LI 39EW31356		266
TOTAL		0
DIRECT FTE		266
		0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3135090	0	285	266		266	280	294	0	0
LI 39EW31356	0	0	0		0	4300	4000	0	0
TOTAL	0	285	266	0	266	4580	4294	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW3135090	295	285	266		266	296	294	310	325
LI 39EW31356	0	0	0		0	4300	4000	0	0
TOTAL	295	285	266	0	266	4596	4294	310	325
DIRECT FTE	1	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-01-0005	COMPLETE FDC B PLANT SAFETY CLASS VENT UPGRADE (W-059)	9/30/94	9/30/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-01-0010	COMPLETE CDR B PLANT SAFETY CLASS VENT UPGRADE (W-059)	5/31/95	5/31/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4190-01-0015	COMPLETE DEF DESIGN B PLANT SAFETY CLASS VENT UPGRADE (W-059)	1/31/98	1/31/98
4190-01-0020	COMPLETE CONSTRUCTION SAFETY CLASS VENT UPGRADE (W-059)	9/30/99	9/30/99

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4195 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: CESIUM CAPSULE RETURN

INSTALLATION: HANFORD

CATEGORY: WM

DEFENSE/NON-DEFENSE:

VERSION DATE: 5/12/93

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: CESIUM CAPSULE RECOVERY PROJECT

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW3110051  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
1242  
1242  
9

## TARGET CASE (\$ IN THOUSANDS)

B&R  
OE EW3110051  
TOTAL  
DIRECT FTE

FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
RL	BUD	LEGAL	ESH	TOTAL				
0	4135			4223	3815	4045	3225	2023
0	4135	0	0	4223	3815	4045	3225	2023
0	17	0	0	17	17	17	15	7

## PLANNING CASE (\$ IN THOUSANDS)

B&R  
OE EW3110051  
TOTAL  
DIRECT FTE

FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
RL	BUD	LEGAL	ESH	TOTAL				
997	7529		3959	3959	3709	2091	1107	1118
997	7529	0	3959	3959	3709	2091	1107	1118
9	17	0	17	17	12	10	7	7

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4195-00-0010	COMPLETE IOTEC CAPSULE SHIPMENTS TO WESF	9/30/95	5/30/96
4195-00-0005	COMPLETE ARECO CAPSULE SHIPMENTS TO WESF	2/28/96	9/30/96

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
4195-00-0015	COMPLETE DOCUMENTATION AND CERTIFICATION FOR ONSITE CASK	9/30/95	9/30/97
4195-00-0035	INITIATE RE-ENCAPSULATION OF RESIDUE AND SWOLLEN CAPSULES AT	9/30/96	9/30/98
4195-00-0030	COMPLETE ORNL SHIPMENT OF WESF RESIDUE	9/30/97	9/30/98

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 4195 ADS SUF: 0 SUBACTIVITY: PC

SUBACTIVITY TITLE: PRODUCTIVITY CHALLENGE

INSTALLATION: HANFORD

CATEGORY: WM DEFENSE/NON-DEFENSE: VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: CESIUM CAPSULE RECOVERY PROJECT

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW3110051	TOTAL
	-151
TOTAL	-151
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3110051	0	-288				-251	-579	-811	-321
TOTAL	0	-288	0	0	0	-251	-579	-811	-321
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW3110051	0	-288				-251	0	0	0
TOTAL	0	-288	0	0	0	-251	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DRIVERS AND IMPACTS INFORMATION  
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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6602 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: ECONOMIC TRANSITION

INSTALLATION: HANFORD

CATEGORY: FT DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: TRANSITION PLANNING/IMPLEMENTATION

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW7010000	TOTAL
TOTAL	972
DIRECT FTE	972
	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7010000	0	3720				4000	6000	8500	8900
TOTAL	0	3720	0	0	0	4000	6000	8500	8900
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7010000	0	3720				7000	8000	10000	10000
CE	0	310				0	0	0	0
TOTAL	0	4030	0	0	0	7000	8000	10000	10000
DIRECT FTE	0	0	0	0	0	0	0	0	0

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

Conducting an Economic Transition program is an imperative at sites such as Hanford, which are faced with transition from a defense production mission to a massive cleanup mission, followed by rampdown and ultimate closure. At issue are the human and physical assets of the site and the final disposition of those assets. Without an effective Economic Transition program, the federal government will have invested billions to achieve environmental regulatory compliance without generating any greater return on investment. With an effective Economic Transition program, the potential exists to redeploy the highly skilled, well-trained and educated workforce developed and utilized during the Site's cleanup mission, and to find productive uses for land, facilities, and equipment.

By encouraging private sector entities to incorporate the land, labor, and capital resources surplus to the DOE missions into their ventures, the regional economic base can be expanded and diversified; public resources can be redeployed into the private sector; and private capital can be leveraged to achieve public sector objectives. These results can be achieved by providing information to potential business enterprises on the surplus resources, and by assisting entrepreneurs in executing the procedures and transactions necessary to acquire these resources. Properly conceived and executed, this program can ultimately reduce taxpayer burdens relating to community assistance and worker retraining, assist local and regional stakeholders achieve their goals and objectives, preserve national technological assets, and direct surplus DOE lands and property to their most efficient use.

There are three broad work programs which capture the thrusts of Economic Transition: Worker Retraining, Asset Conversion and Economic Development Integration.

Worker Retraining consists of preparing and executing a human resource redeployment program that will take former defense materials production workers and shift them to environmental restoration and waste management positions. To do this requires curriculum development; classroom and field/hands-on training facilities; instructor training/qualification; access to other off-site resources including other DOE Sites, DOD or EPA experience, university expertise, and private sector assistance; packaging of lessons learned and the sharing of those both on and off site; and sophisticated worker transition programs to assure as great a likelihood as possible that workers will be transitioned to productive employment upon mission downsizing and conclusion. The objective of this Worker Retraining program is to preserve the region's highly skilled workforce to fulfill the cleanup mission and concurrently prepare them for entry into the multi-billion dollar global environmental business market.

Asset Conversion consists of preparing and executing a physical resource redeployment program that will take former defense materials production land, facilities and equipment and shift them to other federal or non-federal enterprises to generate economic or social benefit. To do this requires optimizing outsourcing ('make or buy') decisions; identifying and marketing excess equipment, facilities and land; creating user facilities

from underutilized buildings and hardware; assuring infrastructure systems and services are in place to support the cleanup mission as well as post-mission economic development programs; public involvement in site development; and support to new programs which may select the site as a preferred location. The objective of the Asset Conversion program is to leverage existing Site assets to provide a base upon which new economic activity can be built, thus generating jobs not just related to cleanup, but to new industry, some of which may be able to employ future displaced site workers.

Economic Development Integration consists of preparing and executing an externally focused program that relies on existing local, regional, national, and international networks to tie the Worker Retraining and Asset Conversion programs to the marketplace. Without such ties, workers cannot be placed nor can assets be reutilized effectively. To do this requires teaming with local and regional economic development entities to identify and evaluate the economic potential of surplus resources potentially available for conversion; creating incentives to attract new users to those assets targeted for conversion; being able to serve as a broker and advocate between asset 'owners' and potential 'acquirers'; recommending and implementing new policies and procedures to facilitate conversion transactions, including resolution of legislative, procurement, regulatory and institutional barriers; conducting public relations/information programs to ensure that potential businesses and other stakeholders have full disclosure and complete information regarding asset conversion; inventing and/or entering into innovative partnerships, strategic alliances, joint ventures and other agreements to expedite and implement conversion; tracking workforce requirements and comparing these with workforce availability; learning from other national (e.g., DOD) and international (e.g., Russian) conversion experiences; and ensuring that economic development initiatives are conducted safely and in compliance with applicable laws and regulations.

#### RELATED ACTIVITIES NARRATIVE:

Technology acquisition, transfer and commercialization activities and educational alliances are required for some economic transition initiatives, but these are expected to be funded separately through Technical Task Packages (TTP's) submitted to the Office of Technology Development, EM-50.

#### KEY ASSUMPTIONS:

Transition from nuclear materials production through environmental restoration and remediation, and ultimately to future use of the Hanford site, will be a decades-long process requiring an unparalleled effort to implement various shutdown and manpower turnover plans.

It will be necessary for Westinghouse Hanford Company to continue to populate certain job classifications to the required levels until necessary work is completed; while, at the same time, other Hanford jobs will be partially or totally displaced due to successful shutdown and transition of the site's nuclear production facilities.

An additional 40,000 square feet of leased office and classroom space will be needed, beginning in FY 1996, to support retraining activities associated with the mission transition.

Unused and under utilized Hanford assets (equipment and facilities) can be identified, redeployed or set up for beneficial use by external entities. Land on the Hanford site can be made available to private entities for location of commercial activities that support the Hanford environmental cleanup mission, and/or promote general private development and economic diversification in the Tri-Cities region.

Service outsourcing can be pursued for (1) future major projects where the private sector has the expertise and interest in providing services, (2) capital expenditure avoidance, (3) activities where competition will result in the best value to the government.

To accomplish the economic transition objectives, it will be necessary to form alliances and partnerships with regional entities, and assist in creation of new businesses and industrial opportunities.

#### ACTIVITY BY PRIORITY:

All activities within this Backup Documentation are priority C -required by federal statute or regulation.

#### CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

##### ----- MOBILE INTERACTION TRAINING CENTER (MITC)

#### TASKS COMPLETED TO DATE:

Hanford retraining activities to date have included the development of the first Hanford Mission Transition Training Plan in January 1991, successful retraining of the WHC employees, in general, regarding the new environmental cleanup mission, and specific retraining and placement of displaced clerical and security personnel to other Hanford job classifications.

Accomplishments in the Economic Transition area include establishing strong interfaces with regional economic development entities such as the Washington Department of Trade and Economic Development, Western Governors' Association, Association of Washington Businesses, Pacific Northwest Economic Region (PNWER), Tri-Cities Industrial Development Council (TRIDEC), and forming an Economic Transition Cabinet in FY92 with the first meeting December 1992, chaired by RL Manager John Wagoner, with the economic development directors of Washington, Oregon and Idaho as members. In 1992, we established the International Environmental Institute steering committee with international membership, including Canadian, Japanese, French and English, as well as the U.S. As part of another local initiative, we have teamed with the Tri-Cities Commercialization Partnership and TRIDEC to submit a proposal for establishing a Regional

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### Technology Transfer Center in the Tri-Cities.

In the area of leveraging site resources and capabilities, conversion and redeployment, activities included the submittal of all documents required for redeployment and transfer of a 4000 ton extrusion press from the Hanford site to the City of Richland.

The first successful outsourcing of a Hanford service, the Hanford site laundry, was accomplished through a contract awarded on July 22, 1992. Following outsourcing of the site laundry service, a 'Red Team' was formed as part of the Hanford Economic Transition Initiative, which resulted in identification of another 37 candidate projects for potential outsourcing of services to the private sector, with the top 21 selected for detailed cost comparison studies in FY 1993. These projects range from thermal treatment of low-level mixed waste to a re-fueling station for waste vehicles.

In support of developing future uses for the Hanford site, we initiated the Environmental Industrial Complex concept for locating dual-purpose businesses on the Hanford site and held a conference entitled 'Clearing Pathways to Success' on October 22, 1992, to discuss plans, barriers, and potential interest levels with industry. In September, 1992, a separate non-profit, International Environmental Institute 'Foundation' was created with an independent Board of Directors. This non-profit entity will provide additional flexibility in funding, contracting, establishment of joint ventures and accomplishment of some economic development objectives.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

FY 1993 retraining activities are focused on Performance Based Training (PBT) of all operations personnel to support safe-shutdown, surveillance, and environmental restoration activities. Training continues for displaced Safeguard and Security workers to become Planner/Schedulers and HPTs. A hands-on field simulation training center will be constructed and put into operation, and a uplink/downlink capability will be established with National Technological University (NTU) through Washington State University (WSU).

Asset Conversion activities in FY 1993 include development of an outsourcing implementation process, transfer of the 4000 ton extrusion press to the City of Richland, and transition of site laundry operations to the private sector. Approval was received on March 30, 1993 from Secretary of Energy Hazel O'Leary, to begin redeployment of the extrusion press. The Phase II cost benefit evaluation for an additional 21 candidate outstanding projects will also be completed. The first Infrastructure Transition Plan will detail the Hanford Site Infrastructure support systems, such as roads, power and water, which are expected to be required on the site over the next 30 years. Current barriers to leasing Hanford Site land for other uses will be worked to allow the first external business to be located onsite using an 'Enterprise Zone' concept.

Economic Development Integration in FY 1993 includes the further development of alliances and networks in the Northwest in the interest of economic development. The newly formed Hanford Economic Transition Cabinet will continue, including a meeting on April 26, 1993, between the economic development directors of Washington, Oregon and Idaho, the RL Manager, and representatives of the Hanford Office of Economic Transition. The first-ever national Economic Conversion Summit will be held at Hanford in September, 1993. Both Secretary of Energy Hazel O'Leary and Washington Governor Mike Lowry have endorsed and committed to attend this important event. An example of a new regional partnership for economic transition is the International Environmental Institute's establishment of a support agreement with the Spokane Intercollegiate Research and Technology Institute, formed on February 22, 1993, to perform selected environmental training and technology transfer activities between Hanford and the Spokane region, in particular with Fairchild Air Force Base.

The non-profit affiliate of the International Environmental Institute will be brought fully into existence through implementation of an international Board of Directors and a specific cooperative agreement between this entity and DOE.

Other activities include the execution of multi-party Cooperative Research and Development Agreement, as a partnership between Pacific Northwest Laboratory (PNL), TRIDEC, WHC and the Washington State Department of Fisheries, to establish a salmon hatchery in the feedwater, or inlet side,

of the K Reactors at Hanford. The first 150,000 salmon smolt were placed in the basin, as a pilot program, on April 5, 1993. Under a similar redeployment initiative, partnership will be developed with a Fortune 500 Company to potentially use WHC developed technology to convert some Hanford land to raising cottonwood trees for the pulp market. This effort is in concert with the Hanford Future Site Use Working Group recommendations.

On an international scale, the International Environmental Institute will team with the local Kennewick School District to establish a 'Sister-city' type relationship with the Russian former plutonium production city Krasnoyarsk-26. The focus of this joint venture is to take advantage of economic transition similarities and needs between Krasnoyarsk-26 and the Tri-Cities.

#### FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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#### BUDGET YEAR (FY 1995) TASK NARRATIVE:

Training will continue for displaced workers to become HPT's, Nuclear Process Operators, Commercial Drivers. Two schools for environmental excellence will be conducted for professionals and managers. Work will begin to establish reciprocity agreements with other sites. Partnerships will be developed with universities for establishing laboratory classrooms and some specific retraining classes and co-development of B.S. degree programs for Environmental Engineering/Management for contractor and Federal employees. The WHC Retraining Management Plan will be completed by July 31, 1994. An interim startup facility/program will be implemented for the Hazardous Materials Management and Emergency Response Training Center.

Asset Conversion activities include implementation of additional economic transition initiatives designed to create jobs in the regional or local community and/or provide cost savings to the government. We also expect to create the Hanford site's first user facility. The Hanford Environmental Industrial Complex parameters and implementation plan will be developed. Hanford land lease issues will also be resolved to allow private sector use of the site. Siting of the first new industry on the Hanford site with dual purpose (i.e., supporting both cleanup and external markets) will be accomplished.

The Economic Development Integration activities include development of an Entrepreneur/Entrepreneur program to encourage employees who would like to move into their own business using expertise gained on-site. The Site's current Electronic Bulletin Board procurement bid system will be integrated with a state-wide system and fully automated to allow searches, contacts, etc. to be made electronically. As an incentive to land conversion and development, negotiations will begin with the State to create an Enterprise Zone on the Hanford site. Resolution of regulatory, legislative procurement and legal barriers impacting economic conversion will continue. A methodology for assessing the effectiveness of asset conversion activities will be developed and performance indicators will be put into practice. A public involvement strategy will be developed and implemented to assure stakeholder participation in conversion activities through a

chartered advisory group.

#### FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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#### PLANNING YEAR (FY 1996) TASK NARRATIVE:

FY 1995 retraining activities will continue to focus on Performance Based Training for personnel to support safe-shutdown, surveillance, and environmental restoration activities. Training will continue for displaced workers.

The school for Environmental Excellence will be increased to four times per year (six week school beginning February, April, July and August) to expand the audience of the school beyond the present Westinghouse GOCOs and DOE attendees. The Individualized Transition Training Center will be implemented by March 31, 1995, with Columbia Basin College, for worker testing, placement, and self-paced retraining in fundamental skills necessary for placement in Hanford or the external job market. By June 30, 1995, a Mobile Interactive Training Center (MITC) for personnel unable to access the Richland area sources will be developed to take the training out to our affected employees. The MITC will include Interactive Video-disc Instruction (IVI) workstations together with a wide variety of IVI courseware appropriate to environmental restoration and remediation work.

Also during FY 1995, the Training Management System will be expanded to allow managers to determine individual training requirements for current and future jobs. Reciprocity agreements will be established with other sites to use mission transition trained workers to perform environmental restoration work around the DOE complex.

HAMMER will achieve full startup and will be utilized as a key facility in retraining Hanford workers for other on-site and off-site jobs. HAMMER is a hands-on, performance-based interagency partnership for sharing and transferring technology (facilities, props, curricula and expertise) with workers, fire fighters, supervisors, scientists, managers and volunteers to be retrained for the new on-site operations (waste operations, transition, environmental restoration); off-site (transport with load/unload); and all emergency responses. The training is designed for handling munitions, hazardous radioactive and mixed hazardous/radioactive materials.. The HAMMER Training Facility will be used for the hands-on training, required by regulations, in a safe and controlled work environment to provide personnel with the new skills required by the changing mission. The HAMMER budget provides support for: the staff required to maintain the facility, the funds necessary to expand and enhance training props required to keep pace with changes in site cleanup activities, supplies and training materials, continued outreach with outside parties and the HAMMER Steering Committee.

Asset Conversion activities include continuing to develop economic transition initiatives that create jobs in the regional and local community and/or provide cost savings to government. Private sector investment and use of the site will be stimulated through new leases of site land to



external entities and by implementing a comprehensive, long term plan for infrastructure transition and future use of the site. The 'Enterprise Zone' concept will be formalized and implemented on the Hanford site. Outsourcing of Hanford site services will continue as a means to increase efficiency and decrease long term capital investment by the government on the site. A minimum of 2 additional Hanford site services or systems will be outsourced to the private sector with the goal of \$150M in savings to the government over 5 years. Additional equipment will be redeployed to the private sector, with an emphasis on regional economic development opportunities.

Through continued work in the Economic Development Integration area, we expect to establish partnerships and other mutually beneficial alliances with regional entities to accomplish the development of new business ventures in the Tri-Cities area, including the Tri-Cities Science and Technology Park, the Washington Environmental Industries Association and the Pacific Northwest Economic Region. We will formalize partnerships with three regional entities. Particular emphasis will be placed on creating the required systems and processes, and removing barriers, to increase the number of spinoff/environmental business in the region. In support of this objective, we will identify targeted site facilities and capabilities for redeployment and perform a market assessment of private sector interests. Expected follow up activities in this regard include brokering/matchmaking assistance, developing employee and industry incentives programs, working closely with the community in nurturing new or expanded businesses in the region, and sharing 'lessons learned' with both national and international entities. The economic transition activities with cities such as Krasnoyarsk-26, in Siberia, will be pursued. The non-profit IEI affiliate will be utilized to the fullest extent possible in achieving the economic transition objectives of the site. A fully integrated stakeholder involvement plan will be implemented to assure that potential business entities and affected parties have full disclosure and information regarding site resource conversion and redeployment. The existing site infrastructure and stakeholder involvement program also will be utilized to ensure that economic development ventures are conducted in the best interests of the region and nation, and in compliance with applicable laws and regulations.

#### FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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#### OUTYEAR (FY 1997-2000) TASK NARRATIVE:

FY 1996-1999 retraining will continue on training personnel for safe-shutdown, surveillance and environmental restoration activities. The number of workers available for retraining due to displacement/termination is expected to increase due to FFTF, PUREX, PFP, and B-Plant and N-Reactor.

Emphasis will include opening a new worker retraining center in the 200 area for displaced workers, use of media to accelerate and enhance the retraining process, accreditation with institutions of higher learning, and

funding of universities to assist in fundamental retraining class development and development of AS and BS level curricula. Additional research and studies on improving workforce planning to support the environmental mission and automated methods to assess worker capabilities and the external market will be performed to enhance worker placement.

Asset Conversion activities include continuing to develop economic transition initiatives that create jobs in regional/local community and/or provide cost savings to government. Planned activities include conversion of an existing Hanford facility to private sector use, and creation of additional user facilities. As part of the site infrastructure transition plan, we will outsource 5 major infrastructure systems or services. The focus on infrastructure development for future site use will also be leveraged to further develop the 'Enterprise Zone' concept, with particular emphasis on creation of an Environmental Industrial Complex. We expect to locate 3 additional dual purpose businesses onsite, and to create another 3 designated user facilities for private sector access.

Economic Development Integration will continue providing structured support to set up and grow the new environmental related businesses in the region. This support will include continuation of regional, national and international outreach programs, and the stakeholder involvement program; 'matchmaking' between the market needs and site resources and capabilities; integration with ongoing state and regional economic development entities or programs, and resolution of key issues and barriers associated with economic transition of the site. The ultimate goal is to begin to have an impact on creating new jobs for the Tri-Cities Region in anticipation of winding down of the site's cleanup activities.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

National Defense Authorization Act (Section 3161 - Department of Energy Defense Nuclear Facilities Workforce Restructuring Plan), Public Law 102-484, October 23, 1992.

Defense Economic Adjustment, Diversification, Conversion, and Stabilization Act of 1990, Public Law 101-510, part D, November 5, 1990.

Job Training Partnership Act (29 U.S.C 1501 et seq.).

Public Works and Economic Development Act of 1965 (42 U.S.C. 3241 et seq.).

DOE Order 5480.20 - Personnel Selections, Training & Qualification Requirements.

40 CFR 264 and 265.16 - Interim and Permanent Status RCRA facilities

29 CFR 1910.120 - Hazardous Waste Operations and Emergency Response

49 CFR 171 and 173 - Transportation of Hazardous Materials (Hazardous Waste Transportation Training)

29 CFR 1910 Subpart I - Personal Protective Equipment

29 CFR 1910.1200 - Hazard Communication Standard

WAC Chapter 173-303-330 - 'Personnel Training'

## REGULATORY KEY ISSUES:

Private and public liability, indemnification needs

Applicability of federal, state, and local laws and regulations

Federal land, equipment and facility usage, transfer, leasing, and/or ownership

Environmental laws, regulations, and permitting

## COMP/PROG BENEFITS AT PLANNING LEVEL:

The economic transition activities have been funded from the contractor general & administrative overhead in prior years. With the direction from DOE-HQ Controller's office to utilize 'ceilings' on overheads, site overhead funding has received extensive review and scrutiny. Certain activities have been identified which will be required to receive direct funding from program sponsors, rather than from overheads. With the establishment of EM-60 and the new EM-60 ADS, the ongoing economic transition and retraining activities at Hanford should receive direct funding.

The workscope is identified in the Planning level budget beginning in FY 1995. Since no EM-60 Economic Transition ADS existed in the FY 1994 ERWM Five-Year Plan, this is considered a new activity and therefore did not receive any Target allocation in FY95 or outyears.

If the Planning level request is denied, the economic transition program at Hanford will not have the opportunity to continue. Failure to continue economic transition and worker retraining activities in the Tri-Cities area will have far-reaching ramifications, including a regional economic downturn and thousands of displaced workers. This could result in other federal funding being required to 'bailout' a localized depression and high unemployment rates. Redeployment of the site facilities, land, equipment and technologies and workforce, through the concerted economic development and conversion effort requested at the Planning level, could avert these significant future problems.

Efforts are also ongoing to assist the communities in obtaining economic conversion funding from other federal sources, such as Department of Commerce and ARPA.

#### CONCERNS AT PLANNING LEVEL:

Requested funding at the Planning level provides the required resources for the Hanford economic transition activities.

#### REQUIRED TECHNICAL DEVELOPMENT:

Technology acquisition transfer and commercialization activities and educational alliances are required for some economic transition initiatives. It is assumed that they are funded separately through Technical Task Packages (TTP's) submitted to the Office of Technology, Development, EM-50.

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6603 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: General Support Service Contractor (GSSC) Support to EM-60

INSTALLATION: HANFORD

CATEGORY: FT DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: PROGRAM SUPPORT

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW7020000	TOTAL
TOTAL	22028
DIRECT FTE	22028
	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7020000	12071	24149	22028			22028	19096	16626	16966
TOTAL	12071	24149	22028	0	22028	19096	16626	16966	15600
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7020000	12071	24149	22028			22028	19096	16626	16966
TOTAL	12071	24149	22028	0	22028	19096	16626	16966	15600
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

This scope reflects DOE-RL requirements for support service contractors. These additional contracted personnel provide a wide array of crucial support including: the conduct of reviews and investigations necessitated by the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), the 1992 Federal Facility Compliance Act and other legal requirements; environmental and safety compliance activities such as quality assurance, environmental protection, radiation protection, nuclear safety, and safeguards and security oversight; management and administration encompassing major tasks like implementation of an integrated program performance measurement and change control system, independent cost estimation and records management.

These funded services are designated for Hanford organizations which benefit the Facility Transition and Management (EM-60) mission; including former nuclear facilities, landlord and DOE-RL matrix support staff components.

## RELATED ACTIVITIES NARRATIVE:

Federal staffing at DOE-RL is budgeted in several other Environmental Restoration and Waste Management (EM) Activity Data Sheets.

## KEY ASSUMPTIONS:

It is assumed that continuing inadequate Federal staffing allocations will adversely impact DOE-RL's ability to provide required field oversight. The requested General Support Service funding estimate is based upon a broad survey of projected FY 1995 and outyear contractor manpower needs for individual Hanford Site programs.

## ACTIVITY BY PRIORITY:

This represents a Priority number 2A (Agreement/Legal) activity. General Support Service Contractor support is necessary for satisfying terms of agreement between DOE, state, federal, local and tribal entities. These agreements are considered as binding commitments necessary for accomplishing strategic milestones on a pre-arranged schedule.

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CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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## TASKS COMPLETED TO DATE:

General support service contractor support is provided on an ongoing basis

within a formal work of scope negotiated by individual DOE-RL components.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

Waste Management (EM-30) previously funded support to all DOE-RL programs except those tasks which directly benefitted the Hanford Environmental Restoration (EM-40) effort.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

Starting in FY 1994, DOE Facility Transition and Management (EM-60) assumes budget responsibility for Hanford support service requirements which benefit DOE-RL's matrix staff; the site landlord, consisting of infrastructure assets and basic communal services; and non-operating nuclear production facilities.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
-----	-----	-----	-----

## PLANNING YEAR (FY 1996) TASK NARRATIVE:

DOE Facility Transition and Management (EM-60) continues its budget responsibility for Hanford support service requirements which benefit DOE-RL's matrix staff; the landlord function, consisting of infrastructure assets and basic communal services; as well as former nuclear facility surveillance, maintenance, deactivation; and program integration. The FY 1995 budget level is premised upon a site staffing requirement study performed by RL-Human Resources in early FY 1993.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DOE Facility Transition and Management (EM-60) continues its budget responsibility for Hanford support service requirements which benefit DOE-RL's matrix staff; the site landlord function; former nuclear facility surveillance, maintenance, deactivation; and program integration. Outyear funding is based upon a site staffing requirement study performed by RL-



Human Resources in early FY 1993.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

The Hanford Federal Agreement and Consent Order (Tri-Party Agreement), Resource Conservation and Recovery Act (RCRA), National Environmental Policy Act (NEPA), Clean Water Act (CWA), Clean Air Act (CAA), Federal Facility Compliance Act of 1992 and other federal/state safety and environmental regulations.

## REGULATORY KEY ISSUES:

Reducing or eliminating General Support Service Contractor funding degrades DOE-RL's ability to address compliance issues as well as other public concerns in an effective and timely manner.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

The proposed planning level budget is premised upon a RL-Human Resources study of organizational needs. This funding scenario will enable DOE-RL to better meet anticipated legal, Departmental and regulatory demands during the period FY 1995-1999.

## CONCERNS AT PLANNING LEVEL:

If added legal, regulatory and DOE requirements arise or Federal staffing falls below requested levels, then General Support Service Contractor funding would need to be re-evaluated.

## REQUIRED TECHNICAL DEVELOPMENT:

Not applicable.

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OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6603 ADS SUF: 0 SUBACTIVITY: BB

SUBACTIVITY TITLE: General On-going Support to Facility Transition & Managemen

INSTALLATION: HANFORD

CATEGORY: FT DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: PROGRAM SUPPORT

DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW7020000	TOTAL
TOTAL	1561
DIRECT FTE	1561
	0

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7020000	1972	4517	5561			5561	5608	4656	4706
TOTAL	1972	4517	5561	0		5561	5608	4656	4706
DIRECT FTE	0	0	0	0	0	0	0	0	0

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7020000	1972	4517	5561			5561	5608	4656	4706
TOTAL	1972	4517	5561	0		5561	5608	4656	4706
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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## TECHNICAL SCOPE NARRATIVE:

This scope encompasses DOE-RL managed responsibilities which support the Hanford Site as a whole. These ongoing activities include: compliance related document/correspondence control, document receipt, logging, assigning and distribution; Hanford Facility Agreement and Consent Order (Tri-Party Agreement) baseline management, the development and implementation of a management control system; air emission monitoring required by Washington State; U.S. General Accounting Office (GAO) access to Hanford databases such as the Hanford Environmental Information System, Waste Information Data System and Hanford Ground Water Monitoring; site training analyses; and, air pollution fees to Washington State.

## RELATED ACTIVITIES NARRATIVE:

None

## KEY ASSUMPTIONS:

Individual DOE-RL program needs are fully satisfied by their respective Activity Data Sheet budget allocations. DOE Environmental Restoration (EM-40) continues to provide partial funding support for Tri-Party Agreement baseline management and correspondence control.

## ACTIVITY BY PRIORITY:

This represents a Priority Number 2A (Agreement/Legal) activity. Budgeted actions must continue for provision of an adequate response to legal, regulatory and related administrative demands.

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CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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## TASKS COMPLETED TO DATE:

Prior to FY 1994, DOE Waste Management (EM-30) funded all ongoing activities. Ad hoc requirements have been sponsored on a special request basis.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

Waste Management (EM-30) provided funding for all ongoing activities.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

Funding planned for ongoing activities. In addition, based on past experience, a small amount is also designated to address probable unforeseen site-wide requirements.

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

Funding planned for ongoing known activities. The identification of Waste Management (EM-30) related requirements saved \$0.5 million at the FY 1995 Target Level.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

Funding planned for identified ongoing activities.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

Chapters 402-80 and 440-44 of the Washington Administrative Code requires payment to the State for its Radioactive Airborne Emission Program. This emissions effort has been in operation since 1988. Billings are received on a quarterly basis. In 1991, the Washington Clean Act directed that industrial and commercial facilities pay fees on air pollution emissions. These fees are based upon one hundred or more tons from a single criteria pollutant. The purpose of this particular fee is to finance state and local air pollution agency development of a renewable permit program.

## REGULATORY KEY ISSUES:

Mandatory Washington State funding requirements must be addressed in annual budget submissions.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

A \$4.4 million 'RL-Management Reserve' is designated at the FY 1995 Planning Level to readily address unforeseen Facility Transition and Management (EM-60) needs which can be expected to arise during the course of any one fiscal year. Within the planning profile dictated by Hanford's compliance, environmental and safety requirements, an probable near Target FY 1995 funding scenario leaves no room for adapting to unanticipated program changes and external budget factors. Given the risks associated with aging nuclear facilities and other conventional site structures, changing compliance requirements and untested environmental technology, DOE-RL needs some degree of added budget flexibility to effectively address emerging cleanup challenges. In the past, the diversion of funding from Facility Transition and Management (EM-60) program areas for other immediate site needs has often lead to the sustaining of high fixed cost and inefficient operations. Meeting a program challenge more quickly with reserve funding will pay off in terms of long term cost savings and a safer working environment. A reassessment of all Facility Transition and Management (EM-60) funding resources whenever unplanned requirements emerge distracts senior management attention from relatively more significant issues.

The outyear budget figures for the Reserve are: \$4.5 million -FY 1996, \$4.6 million -FY 1997, \$4.7 million -FY 1998 and \$4.8 million -FY 1999.

## CONCERNS AT PLANNING LEVEL:

DOE-RL hopes that new external requirements are held to a minimum between now and the end of FY 1995.

REQUIRED TECHNICAL DEVELOPMENT:  
Not Applicable.

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OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6603 ADS SUF: 0 SUBACTIVITY: CC

SUBACTIVITY TITLE: Downwinder Litigation

INSTALLATION: HANFORD

CATEGORY: FT DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: PROGRAM SUPPORT

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW7020000	TOTAL
TOTAL	9776
DIRECT FTE	9776
	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7020000	3315	9500	9776			9776	10069	10371	10682
TOTAL	3315	9500	9776	0	0	9776	10069	10371	10682
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7020000	3315	9500	9776			9776	10069	10371	10682
TOTAL	3315	9500	9776	0	0	9776	10069	10371	10682
DIRECT FTE	0	0	0	0	0	0	0	0	0

## SCOPE INFORMATION

## TECHNICAL SCOPE NARRATIVE:

This scope consists of defending massive class action lawsuits filed in Federal District Court by various varieties of Hanford 'downwinders' against the following current and former management and operating contractors at Hanford: Dupont, United Nuclear Corporation, Atlantic Richfield, General Electric, Rockwell and the Westinghouse Hanford Company. These suits have been consolidated into one action covering all site activities since Hanford's initial operations during the early 1940's. Defense of the suit is expected to require an extensive 'discovery' effort including depositions from many former managers and employees, an examination of about 2,000 medical records, as well as the review and production of documents which could amount to over one hundred million pages. Substantial involvement of DOE attorneys and other employees during the course of the defense is also anticipated.

## RELATED ACTIVITIES NARRATIVE:

None

## KEY ASSUMPTIONS:

Continued defense by the individual Hanford Reservation contractors, rather than by the Federal Government; class certification rather than multiple tort actions; and no unexpected developments such as voluntary plaintiff withdrawals or dismissal of defendants.

## ACTIVITY BY PRIORITY:

This activity is ranked as a Priority number 2A (Agreement/Legal). The funding of defendant litigation expenses represents DOE's contractual obligation to fund allowable costs of current and former Hanford operators.

## CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

## TASKS COMPLETED TO DATE:

Prior to FY 1994, Hanford Downwinder Litigation funding was jointly provided by DOE Waste Management (EM-30) and Defense Programs (DP) on a 4:7 cost-shared ratio.

Actions were filed at various times in 1990 and consolidated during 1991. In October 1991, the U.S. District Court of Eastern Washington granted certain defense motions which dismissed the claims for: abatement and remediation of risks posed by underground waste storage, medical surveillance relief for CERCLA response costs, punitive damages, and a

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special disclosure order. Subsequently, the Court issued further instructions which attenuated the motion and 'discovery' phases of the case through at least FY 1995.

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## CURRENT YEAR (FY 1994) TASK NARRATIVE:

Prior to FY 1994, Hanford Downwinder Litigation funding was jointly provided by DOE Waste Management (EM-30) and Defense Programs (DP) on a 4:7 cost-shared ratio.

Planned activities include: processing massive amounts of government and defendant documents, conducting legal research, examining medical records, preparing and filing additional motions in Court, as well as continuing 'discovery' and other tasks necessitated by Court orders or plaintiff initiatives.

## \*07 BUDGET YEAR (FY94) TASK NARRATIVE:\*

As of FY 1994, DOE Facility Transition and Management (EM-60) assumes all future Hanford Downwinder Litigation budget responsibilities.

'Discovery', document review and production, motions, briefing and legal research.

Lower than expected FY 1991 and FY 1992 expenses permitted a reduction of the DOE-RL FY 1994 Downwinder Litigation budget to \$6,315K. The cumulative unexpended program balance at the start of FY 1993 amounted to \$7,321K. Actual annual costs were: \$9,508K -FY 1991 and \$9,979K -FY 1992.

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## PLANNING YEAR (FY 1996) TASK NARRATIVE:

Preparation for and defense against class certification motions, 'discovery' document review and production as well as trial preparations. Expected activities include: submitting written questions to Downwinder plaintiffs, designating and securing depositions from expert witnesses, obtaining depositions of expert witnesses selected by Downwinder plaintiffs, identifying additional experts for responding to plaintiff rebuttal witnesses, taking depositions of added expert plaintiff witnesses who rebut testimony from defendant selected experts, and continuing

document discovery by plaintiffs and defendants.

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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## OUTYEAR (FY 1997-2000) TASK NARRATIVE:

'Discovery', trial preparations, trial and post trial proceedings as well as potential appeals.

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DRIVERS AND IMPACTS INFORMATION

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## REGULATORY DRIVERS:

The United States District Court rules applicable to this Hanford Downwinder Litigation case require that parties to a lawsuit comply with 'discovery' requests and court rulings; or be subjected to contempt of court, or a possible uncontested entry of judgement in favor of plaintiffs. Failure to adequately fund the defense of these claims could result in a windfall uncontested judgement for the class action plaintiffs in the range of tens to hundreds of millions of dollars. The defendant contractors will then claim any such judgement against them as allowable costs under their contracts with DOE or its predecessor agencies.

## REGULATORY KEY ISSUES:

Hanford Downwinder Litigation is a legal issue.

## COMP/PROG BENEFITS AT PLANNING LEVEL:

At the FY 1995 Target, budgeted funding represents average expenses incurred over the initial two years of Downwinder Litigation proceedings. A more likely requirements scenario is portrayed at the \$13.4 million Planning Level. As an actual trial date draws closer, costly activities such as expert witness depositions and medical record examinations are expected to increase annual expenditures.

Based upon actual FY 1991 and FY 1992 expenditures, FY 1996-1998 Planning Levels have been reduced annually by \$2 million from previous FY 1994 Five Year Plan projections, which were: \$16,240K- FY 1996; \$17,137K-FY 1997 and \$17,934K -FY 1998.

## CONCERNS AT PLANNING LEVEL:

The entire Downwinder Litigation process is driven by its plaintiffs and U.S. District Court directions, two unpredictable forces which could discredit any budget projections.

## REQUIRED TECHNICAL DEVELOPMENT:

Not Applicable.

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6603 ADS SUF: 0 SUBACTIVITY: DD

SUBACTIVITY TITLE: DOE Payments in Lieu of Taxes (PILT) to Three WA State Coun

INSTALLATION: HANFORD

CATEGORY: FT DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

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LINE ITEM NO: TPC: TEC:

DESCRIPTION: PROGRAM SUPPORT

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW7020000	TOTAL
TOTAL	2000
DIRECT FTE	2000
	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7020000	0	2000	2000		2000	2060	2122	2185	2251
TOTAL	0	2000	2000	0	2000	2060	2122	2185	2251
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7020000	0	2000	2000		2000	2060	2122	2185	2251
TOTAL	0	2000	2000	0	2000	2060	2122	2185	2251
DIRECT FTE	0	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:



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SCHEDULE INFORMATION

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## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6603 ADS SUF: 0 SUBACTIVITY: EE

SUBACTIVITY TITLE: Hanford Advisory Board

INSTALLATION: HANFORD

CATEGORY: FT DEFENSE/NON-DEFENSE: D VERSION DATE: 5/12/93

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: PROGRAM SUPPORT

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW7020000	TOTAL
TOTAL	2000
DIRECT FTE	2000
	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7020000	0	2000	2000			2000	2060	2122	2185
TOTAL	0	2000	2000	0	0	2000	2060	2122	2185
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7020000	0	2000	2000			2000	2060	2122	2185
TOTAL	0	2000	2000	0	0	2000	2060	2122	2185
DIRECT FTE	0	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6604 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: DOE-RICHLAND PUBLIC SUPPORT

INSTALLATION: HANFORD

CATEGORY: FT DEFENSE/NON-DEFENSE: D VERSION DATE:

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: PROGRAM SUPPORT

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW7020000	TOTAL
TOTAL	2000
DIRECT FTE	2000
	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7020000	7568	4300	2000			2000	0	0	0
TOTAL	7568	4300	2000	0	0	2000	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7020000	7568	4300	2000			2000	0	0	0
TOTAL	7568	4300	2000	0	0	2000	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

-----

TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----

TASKS COMPLETED TO DATE:



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SCHEDULE INFORMATION

---

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

---

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

---

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

---

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

---

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: PROGRAM ADMINISTRATION

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7001000  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
3772  
3772  
35

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW7001000	3231	3686	0	3772	3772	4617	4734	4898	5023
TOTAL	3231	3686	0	3772	3772	4617	4734	4898	5023
DIRECT FTE	30	35	0	35	35	41	41	41	41

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW7001000	3231	4342		3772	4448	4617	4734	4898	5023
TOTAL	3231	4342	0	3772	4448	4617	4734	4898	5023
DIRECT FTE	30	41	0	35	41	41	41	41	41

SCOPE INFORMATION  
-----

TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
-----

TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6620-00-0085	SUBMIT DRAFT HANFORD MATERIALS MANAGEMENT PLAN TO DOE-RL	9/15/94	9/15/94
6620-00-0030	SUBMIT FY 1995 FYWP/MYPP TO DOE-RL.	9/30/94	9/30/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6620-00-0015	SUBMIT FY 1997 ACTIVITY DATA SHEETS TO RL	5/01/95	5/01/95
6620-00-0090	SUBMIT DRAFT HANFORD MATERIALS MANAGEMENT PLAN TO DOE-RL	9/15/95	9/15/95
6620-00-0035	SUBMIT FY 1996 FYWP/MYPP TO DOE-RL.	9/30/95	9/30/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6620-00-0065	SUBMIT FY 1998 ACTIVITY DATA SHEETS TO RL	5/01/96	5/01/96
6620-00-0080	SUBMIT DRAFT HANFORD MATERIALS MANAGEMENT PLAN TO DOE-RL	9/15/96	9/15/96
6620-00-0045	SUBMIT FY 1997 FYWP/MYPP TO DOE-RL.	9/30/96	9/30/96

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6620-00-0070	SUBMIT FY 1999 ACTIVITY DATA SHEETS TO RL	5/01/97	5/01/97
6620-00-0095	SUBMIT DRAFT HANFORD MATERIALS MANAGEMENT PLAN TO DOE-RL	9/15/97	9/15/97
6620-00-0050	SUBMIT FY 1998 FYWP/MYPP TO DOE-RL.	9/30/97	9/30/97
6620-00-0075	SUBMIT FY 2000 ACTIVITY DATA SHEETS TO RL	5/01/98	5/01/98
6620-00-0100	SUBMIT DRAFT HANFORD MATERIALS MANAGEMENT PLAN TO DOE-RL	9/15/98	9/15/98
6620-00-0055	SUBMIT FY 1999 FYWP/MYPP TO DOE-RL.	9/30/98	9/30/98
6620-00-0105	SUBMIT DRAFT HANFORD MATERIALS MANAGEMENT PLAN TO DOE-RL	9/15/99	9/15/99
6620-00-0060	SUBMIT FY 2000 FYWP/MYPP TO DOE-RL.	9/30/99	9/30/99
6620-00-0110	SUBMIT DRAFT HANFORD MATERIALS MANAGEMENT PLAN TO DOE-RL	9/15/00	9/15/00

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DRIVERS AND IMPACTS INFORMATION

-----  
REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

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## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: CARRYOVER/PRODUCTIVITY COMMITMENT

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7001000  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
-491  
-491  
0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL			
B&R									
OE EW7001000	-5455	-522			-491	-833	-1277	-656	-675
TOTAL	-5455	-522	0	0	-491	-833	-1277	-656	-675
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL			
B&R									
OE EW7001000	-5455	-522			-491	-491	0	0	0
TOTAL	-5455	-522	0	0	-491	-491	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## SCOPE INFORMATION

-----  
TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
-----

TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

FY 1994 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

FY 1995 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

FY 1996 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

FY 1997-FY 2000 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

---

DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: AC

SUBACTIVITY TITLE: TECHNICAL TRAINING

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7001000  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
0  
0  
0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
B&R									
OE EW7001000	3821	0		0	0	0	0	0	0
TOTAL	3821	0	0	0	0	0	0	0	0
DIRECT FTE	33	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
B&R									
OE EW7001000	3821	0		0	0	0	0	0	0
TOTAL	3821	0	0	0	0	0	0	0	0
DIRECT FTE	33	0	0	0	0	0	0	0	0

## SCOPE INFORMATION

-----

TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----

TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

---

DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: AE

SUBACTIVITY TITLE: PFP PROJECT SUPPORT

INSTALLATION: HANFORD

CATEGORY: FT DEFENSE/NON-DEFENSE: VERSION DATE:

PROGRAM: EM PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: PROGRAM INTEGRATION

DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW7001000		0
TOTAL		0
DIRECT FTE		0

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL BUD	LEGAL	ESH	TOTAL				
OE EW7001000	589	0			0	0	0	0	0
TOTAL	589	0	0	0	0	0	0	0	0
DIRECT FTE	4	0	0	0	0	0	0	0	0

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL BUD	LEGAL	ESH	TOTAL				
OE EW7001000	589	0			0	0	0	0	0
TOTAL	589	0	0	0	0	0	0	0	0
DIRECT FTE	4	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
-----

TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
-----

TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

-----  
REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: AF

SUBACTIVITY TITLE: SPECIAL NUCLEAR MATERIAL PLANNING

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW7001000		TOTAL
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7001000	0	0		0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7001000	0	0		0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
-----

TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
-----

TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

---

DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: AG

SUBACTIVITY TITLE: PFP NEPA SUPPORT

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7001000  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
0  
0  
0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW7001000	543	0	0		0	0	0	0	0
TOTAL	543	0	0	0	0	0	0	0	0
DIRECT FTE	4	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW7001000	543	0	0		0	0	0	0	0
TOTAL	543	0	0	0	0	0	0	0	0
DIRECT FTE	4	0	0	0	0	0	0	0	0

## SCOPE INFORMATION

-----

TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----

TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DRIVERS AND IMPACTS INFORMATION  
-----

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: AH

SUBACTIVITY TITLE: SAFEGUARDS &amp; SECURITY

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW7001000		TOTAL
TOTAL		1214
DIRECT FTE		14

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7001000	2115	1167		1214	1214	1264	1317	1368	1480
TOTAL	2115	1167	0	1214	1214	1264	1317	1368	1480
DIRECT FTE	14	14	0	14	14	14	14	14	14

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7001000	2115	1167		1214	1214	1264	1317	1368	1480
TOTAL	2115	1167	0	1214	1214	1264	1317	1368	1480
DIRECT FTE	14	14	0	14	14	14	14	14	14

## SCOPE INFORMATION

-----

TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----

TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

---

DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: EA

SUBACTIVITY TITLE: PFP TANK INTEGRITY ASSESSMENT

INSTALLATION: HANFORD

CATEGORY: FT DEFENSE/NON-DEFENSE: VERSION DATE:

PROGRAM: EM PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: PROGRAM INTEGRATION

DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW7001000		0
TOTAL		0
DIRECT FTE		0

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7001000	79	0	0		0	0	0	0	0
TOTAL	79	0	0	0	0	0	0	0	0
DIRECT FTE	1	0	0	0	0	0	0	0	0

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7001000	79	0	0		0	0	0	0	0
TOTAL	79	0	0	0	0	0	0	0	0
DIRECT FTE	1	0	0	0	0	0	0	0	0

## SCOPE INFORMATION

-----

TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----

TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6620-00-0005	COMPLETE INTEGRITY ASSESS REPORT FOR PFP INTERIM STATUS TANKS	10/31/93	10/31/93
6620-00-0010	SUBMIT PROPOSED COMPL STRAT TO ECOLOGY FOR REMAINING PFP TANK ISS	6/30/94	6/30/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: EB

SUBACTIVITY TITLE: PFP FDC/CDR PROJECT SUPPORT

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7001000  
TOTAL  
DIRECT FTE

FY1996  
TOTAL  
0  
0  
0

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW7001000	164	0	0		0	0	0	0	0
TOTAL	164	0	0	0	0	0	0	0	0
DIRECT FTE	1	0	0	0	0	0	0	0	0

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW7001000	164	0	0		0	0	0	0	0
TOTAL	164	0	0	0	0	0	0	0	0
DIRECT FTE	1	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6620-00-0020	COMPLETE ECMP FOR C-116	2/28/94	2/28/94
6620-00-0025	COMPLETE ECMP FOR C-196	2/28/94	2/28/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: EC

SUBACTIVITY TITLE: PROJECT C-116 MISCELLANEOUS WASTESTREAM DEVELOPMENT

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW7001000		TOTAL
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW7001000		368	0	0		0	0	0	0	0
TOTAL		368	0	0	0	0	0	0	0	0
DIRECT FTE		1	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW7001000		368	0	0		0	0	0	0	0
TOTAL		368	0	0	0	0	0	0	0	0
DIRECT FTE		1	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

---

DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: ED

SUBACTIVITY TITLE: ENVIRONMENTAL MANAGEMENT

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7001000  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
304  
304  
3

## TARGET CASE (\$ IN THOUSANDS)

B&R  
OE EW7001000  
TOTAL  
DIRECT FTE

FY1994	FY1995	FY1996	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
RL	BUD	LEGAL	ESH	TOTAL					
1114	295	0	304	304	312	322	331	341	
1114	295	0	304	304	312	322	331	341	
7	3	0	3	3	3	3	3	3	3

## PLANNING CASE (\$ IN THOUSANDS)

B&R  
OE EW7001000  
TOTAL  
DIRECT FTE

FY1994	FY1995	FY1996	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
RL	BUD	LEGAL	ESH	TOTAL					
1114	1153	890	304	1194	1191	1298	772	639	
1114	1153	890	304	1194	1191	1298	772	639	
7	7	5	3	7	7	7	6	5	

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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6620-00-0040	COMPLETE PUREX, UO3 AND PFP AIR EMISSIONS INVENTORIES	9/30/94	9/30/94
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: EE

SUBACTIVITY TITLE: PUREX/PFP NESHAPS

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

## DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996
OE EW7001000		TOTAL
TOTAL		0
DIRECT FTE		0

## TARGET CASE (\$ IN THOUSANDS)

		FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7001000		909		0	0		0	0	0	0
TOTAL		909		0	0	0	0	0	0	0
DIRECT FTE		2		0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

		FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7001000		909		0	0		0	0	0	0
TOTAL		909		0	0	0	0	0	0	0
DIRECT FTE		2		0	0	0	0	0	0	0

SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

FY 1994 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

FY 1995 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

FY 1996 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

FY 1997-FY 2000 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: EF

SUBACTIVITY TITLE: PFP/PUREX PART B PERMITTING

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7001000  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
0  
0  
0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7001000	929	0	0		0	0	0	0	0
TOTAL	929	0	0	0	0	0	0	0	0
DIRECT FTE	8	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7001000	929	0	0		0	0	0	0	0
TOTAL	929	0	0	0	0	0	0	0	0
DIRECT FTE	8	0	0	0	0	0	0	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

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SCHEDULE INFORMATION

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FY 1994 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

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CURRENT YEAR (FY 1994) TASK NARRATIVE:FY 1995 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

---

BUDGET YEAR (FY 1995) TASK NARRATIVE:FY 1996 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

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PLANNING YEAR (FY 1996) TASK NARRATIVE:FY 1997-FY 2000 MILESTONES:  
MILESTONE ID    TITLE

PLANNING

TARGET

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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: EG

SUBACTIVITY TITLE: PROJECT C-196 WASTELINE SECONDARY CONTAINMENT

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

COST INFORMATION:

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LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PROGRAM INTEGRATION

DECREMENT CASE (\$ IN THOUSANDS)

	B&R	FY1996 TOTAL
OE EW7001000		0
TOTAL		0
DIRECT FTE		0

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7001000	230		0	0		0	0	0	0
TOTAL	230		0	0	0	0	0	0	0
DIRECT FTE	1		0	0	0	0	0	0	0

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7001000	230		0	0		0	0	0	0
TOTAL	230		0	0	0	0	0	0	0
DIRECT FTE	1		0	0	0	0	0	0	0

SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

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SCHEDULE INFORMATION

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## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6620 ADS SUF: 0 SUBACTIVITY: EH

SUBACTIVITY TITLE: WASTE MINIMIZATION

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: DEACTIVATION/COMPLIANCE ACTIONS

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996 TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
TOTAL	0	0	0	0	0	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7003000	0	0			1703	1703	1703	1703	1703
TOTAL	0	0	0	0	1703	1703	1703	1703	1703
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6622 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: PUREX SURVEILLANCE AND MAINTENANCE

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: SURVEILLANCE &amp; MAINTENANCE

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7002000  
CE 35EW70020  
GP 39EW70020  
TOTAL  
DIRECT FTE

FY1996  
TOTAL  
33715  
227  
114  
34056  
222

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW7002000	32431	33568	833	32881	33715	31568	23621	2012	2072
CE 35EW70020	140	227	227		227	114	0	0	0
GP 39EW70020	100	0	114		114	227	0	0	0
TOTAL	32671	33795	1174	32881	34056	31909	23621	2012	2072
DIRECT FTE	226	222	8	214	222	197	142	9	9

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW7002000	32431	33568	833	32881	33715	31568	23621	2012	2072
CE 35EW70020	140	227	227		227	114	0	0	0
GP 39EW70020	100	114	114		114	0	0	0	0
TOTAL	32671	33909	1174	32881	34056	31682	23621	2012	2072
DIRECT FTE	226	222	8	214	222	197	142	9	9

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
-----PUREX CENRTC SUPPORT  
PUREX CENRTC SUPPORT  
PUREX CENRTC SUPPORT

TASKS COMPLETED TO DATE:

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SCHEDULE INFORMATION

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## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6622-00-0205	CEASE DISCHARGES TO 216-U-14 DITCH	6/30/95	6/30/95
6622-00-0200	CEASE PUREX CHEM SEWER DISCHARGES TO 216-B-3 POND	6/30/95	6/30/95
6622-00-0195	CEASE PUREX COOLING WATER DISCHARGES TO 216-B-3 POND	6/30/95	6/30/95
6622-00-0190	CEASE PUREX STEAM CONDENSATE DISCHARGES TO 216-B-3 POND	6/30/95	6/30/95
6622-00-0210	CEASE UO3 PROCESS CONDENSATE DISCHARGES TO 216-U-17 CRIB	6/30/95	6/30/95
6622-00-0185	IMPLEMENT BAT/AKART, PUREX AMMONIA SCRUBBER CONDENSATE	6/30/95	6/30/95
6622-00-0180	IMPLEMENT BAT/AKART, PUREX PROCESS CONDENSATE	6/30/95	6/30/95
6622-00-0215	SUBMIT PUREX PART B/CLOSURE PLAN	7/31/95	7/31/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6622 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: U03 SURVEILLANCE AND MAINTENANCE

INSTALLATION: HANFORD

CATEGORY: FT DEFENSE/NON-DEFENSE: VERSION DATE: :

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: SURVEILLANCE &amp; MAINTENANCE

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW7002000	TOTAL
TOTAL	0
DIRECT FTE	0

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7002000	4439	488			0	0	0	0	0
TOTAL	4439	488	0	0	0	0	0	0	0
DIRECT FTE	23	5	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7002000	4439	488			0	0	0	0	0
TOTAL	4439	488	0	0	0	0	0	0	0
DIRECT FTE	23	5	0	0	0	0	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:



E-T010

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6622 ADS SUF: 0 SUBACTIVITY: AC

SUBACTIVITY TITLE: PUREX PRODUCTIVITY INCENTIVES

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: SURVEILLANCE & MAINTENANCE

DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7002000  
TOTAL  
DIRECT FTE

FY1996  
TOTAL  
-3235  
-3235  
0

TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
B&R									
OE EW7002000	-5294	-4871			-4664	-6823	-4014	-200	-204
TOTAL	-5294	-4871	0	0	-4664	-6823	-4014	-200	-204
DIRECT FTE	0	0	0	0	0	0	0	0	0

PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
	RL	BUD	LEGAL	ESH	TOTAL				
B&R									
OE EW7002000	-5294	-4871			-4664	0	0	0	0
TOTAL	-5294	-4871	0	0	-4664	0	0	0	0
DIRECT FTE	0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

---

DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6622 ADS SUF: 0 SUBACTIVITY: AD

SUBACTIVITY TITLE: PUREX DEACTIVATION PROJECT

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: DEACTIVATION/COMPLIANCE ACTIONS

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7003000  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
5395  
5395  
44

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7003000	11032	16320	17759		17759	11799	3134	0	0
TOTAL	11032	16320	17759	0	17759	11799	3134	0	0
DIRECT FTE	93	108	134	0	134	89	13	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R	RL	BUD	LEGAL	ESH	TOTAL				
OE EW7003000	11032	17918	16082		16082	11799	3134	0	0
TOTAL	11032	17918	16082	0	16082	11799	3134	0	0
DIRECT FTE	93	118	125	0	125	89	13	0	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
-----

TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6622-00-0005	SUBMIT DEACTIVATION COST ESTIMATE	10/31/93	10/31/93
6622-00-0010	COMPLETE UO3 PLANT PHASE I DEACTIVATION	3/15/94	3/15/94
6622-00-0015	COMPLETE E-F11 CONCENTRATOR DEMONSTRATION	3/16/94	3/16/94
6622-00-0020	COMPLETE TANK D5/E6 ENGINEERING STUDY	4/08/94	4/08/94
6622-00-0025	DISCONTINUE UO3 PROCESS CONDENSATE DISCHARGE	9/26/94	9/26/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6622-00-0030	RETURN SINGLE-PASS FUEL	10/17/94	10/17/94
6622-00-0040	COMPLETE ZIRCONIUM HEEL STABILIZATION	10/19/94	10/19/94
6622-00-0035	RECONCILE UO3 SNM FINAL ACCOUNTABILITY	10/19/94	10/19/94
6622-00-0045	DISCONTINUE UO3 COOLING WATER DISCHARGE	12/21/94	12/21/94
6622-00-0050	SUBMIT PROJECT SAFETY BASIS PACKAGE	4/11/95	4/11/95
6622-00-0135	RETURN N REACTOR FUEL	5/03/95	5/03/95
6622-00-0055	COMPLETE UO3 PLANT DEACTIVATION	5/16/95	5/16/95

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6622-00-0065	COMPLETE NITRIC ACID DISPOSAL	2/24/96	2/24/96
6622-00-0070	COMPLETE N CELL STABILIZATION	6/17/96	6/17/96
6622-00-0075	COMPLETE Pu-U SOLUTION DISPOSAL	7/22/96	7/22/96

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6622-00-0085	COMPLETE ISOLATION OF TANK FARM WASTE LINES	12/04/96	12/04/96
6622-00-0080	COMPLETE PUREX CANYON FLUSHING	12/04/96	12/04/96
6622-00-0090	COMPLETE PR ROOM DEACTIVATION	3/19/97	3/19/97
6622-00-0095	COMPLETE SAMPLE GALLERY DEACTIVATION	4/22/97	4/22/97

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6622-00-0100	RECONCILE PUREX SNM FINAL ACCOUNTABILITY	5/16/97	5/16/97
6622-00-0105	COMPLETE DEACTIVATION OF PIPE & OPERATING GALLERY	6/02/97	6/02/97
6622-00-0110	COMPLETE PUREX/UO3 PLANT SURVEILLANCE & MAINTENANCE PLAN	6/24/97	6/24/97
6622-00-0115	COMPLETE HVAC SYSTEM CONSOLIDATION	6/25/97	6/25/97
6622-00-0120	COMPLETE DEACTIVATION OF ANCILLARY BUILDINGS	6/01/98	6/01/98
6622-00-0125	DISCONTINUE PUREX LIQUID EFFLUENT DISCHARGE	6/17/98	6/17/98
6622-00-0130	COMPLETE PUREX DEACTIVATION	7/31/98	7/31/98

OUTYEAR (FY 1997-2000) TASK NARRATIVE:



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DRIVERS AND IMPACTS INFORMATION

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REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

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## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6622 ADS SUF: 0 SUBACTIVITY: AE

SUBACTIVITY TITLE: PUREX INVENTORY CHANGE

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: PFP INVENTORY CHANGE

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7080010  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
-100  
-100  
0

## TARGET CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW7080010		0	-900		-100	-100	-100	-50	0	0
TOTAL		0	-900	0	-100	-100	-100	-50	0	0
DIRECT FTE		0	0	0	0	0	0	0	0	0

## PLANNING CASE (\$ IN THOUSANDS)

	B&R	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
		RL	BUD	LEGAL	ESH	TOTAL				
OE EW7080010		0	-900		-100	-100	-100	-50	0	0
TOTAL		0	-900	0	-100	-100	-100	-50	0	0
DIRECT FTE		0	0	0	0	0	0	0	0	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----  
TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

---

DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6622 ADS SUF: 0 SUBACTIVITY: AF

SUBACTIVITY TITLE: PUREX COMPLIANCE

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

-----  
LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: DEACTIVATION/COMPLIANCE ACTIONS

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW7003000	TOTAL
	1788
TOTAL	1788
DIRECT FTE	14

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7003000	0	2162	1788			1788	1490	1032	0
TOTAL	0	2162	1788	0		1788	1490	1032	0
DIRECT FTE	0	18	14	0		14	14	9	0

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7003000	0	2162	1739			1739	1490	1032	0
TOTAL	0	2162	1739	0		1739	1490	1032	0
DIRECT FTE	0	18	14	0		14	14	9	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
-----

TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID    TITLE

PLANNING

TARGET

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6623 ADS SUF: 0 SUBACTIVITY: AA

SUBACTIVITY TITLE: 300 AREA BUSINESS MGMT

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: SURVEILLANCE &amp; MAINTENANCE

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW7002000	TOTAL
	110
TOTAL	110
DIRECT FTE	1

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7002000	0	107			110	110	111	112	116
TOTAL	0	107	0		110	110	111	112	116
DIRECT FTE	0	1	0		1	1	1	1	1

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7002000	0	107			110	110	111	112	116
TOTAL	0	107	0		110	110	111	112	116
DIRECT FTE	0	1	0		1	1	1	1	0

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE:

## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6623 ADS SUF: 0 SUBACTIVITY: AB

SUBACTIVITY TITLE: 300 AREA FUEL SUPPLY MAINTENANCE &amp; SURVEILLANCE

INSTALLATION: HANFORD

CATEGORY: FT

DEFENSE/NON-DEFENSE:

VERSION DATE:

PROGRAM: EM

PRINT DATE: 8/16/94

## COST INFORMATION:

-----  
LINE ITEM NO:

TPC:

TEC:

DESCRIPTION: SURVEILLANCE &amp; MAINTENANCE

## DECREMENT CASE (\$ IN THOUSANDS)

B&R  
OE EW7002000  
TOTAL  
DIRECT FTEFY1996  
TOTAL  
2286  
2286  
18

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW7002000	0	2713		2286	2286	2521	2478	2495	2759
TOTAL	0	2713	0	2286	2286	2521	2478	2495	2759
DIRECT FTE	0	18	0	18	18	16	16	16	16

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL BUD	LEGAL	ESH	TOTAL				
OE EW7002000	0	8956		2540	2540	2552	2380	1913	20
LI 39EW70020	0	279		0	0	0	0	0	0
TOTAL	0	9235	0	2540	2540	2552	2380	1913	20
DIRECT FTE	0	22	0	21	21	21	19	14	0

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SCOPE INFORMATION

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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K

-----

TASKS COMPLETED TO DATE:



## SCHEDULE INFORMATION

## FY 1994 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6623-00-0080	EXCESS ESSENTIAL MATERIALS INVENTORY	11/30/93	11/30/93
6623-00-0085	REMOVE PYROPHORIC METALS FROM 313/333 BUILDINGS	1/31/94	1/31/94
6623-00-0095	COMPLETE CONCRETION OF PYROPHORIC WASTE	4/30/94	4/30/94
6623-00-0105	COMPLETE WASTE REMOVAL AT 303-K FACILITY	7/31/94	7/31/94

CURRENT YEAR (FY 1994) TASK NARRATIVE:

## FY 1995 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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BUDGET YEAR (FY 1995) TASK NARRATIVE:

## FY 1996 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
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PLANNING YEAR (FY 1996) TASK NARRATIVE:

## FY 1997-FY 2000 MILESTONES:

MILESTONE ID	TITLE	PLANNING	TARGET
6623-00-0005	EXCESS 3717 BUILDING SPARE PARTS	7/31/95	7/31/97

OUTYEAR (FY 1997-2000) TASK NARRATIVE:

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DRIVERS AND IMPACTS INFORMATION

---

REGULATORY DRIVERS:

REGULATORY KEY ISSUES:

COMP/PROG BENEFITS AT PLANNING LEVEL:

CONCERNS AT PLANNING LEVEL:

REQUIRED TECHNICAL DEVELOPMENT:

OFFICE OF WASTE MANAGEMENT  
TASK DESCRIPTION DOCUMENT

## INTRODUCTION AND CROSS-REFERENCE INFORMATION

OPERATIONS OFFICE: RL ADS ID: 6623 ADS SUF: 0 SUBACTIVITY: AC

SUBACTIVITY TITLE: 300 AREA FUEL SUPPLY REGULATORY RESPONSE

INSTALLATION: HANFORD

CATEGORY: FT DEFENSE/NON-DEFENSE: VERSION DATE:

PROGRAM: EM PRINT DATE: 8/16/94

## COST INFORMATION:

LINE ITEM NO: TPC: TEC:

DESCRIPTION: DEACTIVATION/COMPLIANCE ACTIONS

## DECREMENT CASE (\$ IN THOUSANDS)

B&R	FY1996
OE EW7003000	TOTAL
TOTAL	399
DIRECT FTE	399
	3

## TARGET CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7003000	1153	493	399		399	1310	1026	737	545
TOTAL	1153	493	399	0	399	1310	1026	737	545
DIRECT FTE	7	2	3	0	3	6	5	5	3

## PLANNING CASE (\$ IN THOUSANDS)

	FY1994	FY1995	FY1996	FY1996	FY1996	FY1997	FY1998	FY1999	FY2000
B&R		RL	BUD	LEGAL	ESH	TOTAL			
OE EW7003000	1167	1560	1157		1157	759	735	366	82
TOTAL	1167	1560	1157	0	1157	759	735	366	82
DIRECT FTE	7	9	8	0	8	6	6	3	1

SCOPE INFORMATION  
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TECHNICAL SCOPE NARRATIVE:

RELATED ACTIVITIES NARRATIVE:

KEY ASSUMPTIONS:

ACTIVITY BY PRIORITY:

CAPITAL EQUIPMENT TITLES WITH DOLLARS OVER 25K  
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TASKS COMPLETED TO DATE: